

Optional Kits available through your Distributor:

Flipper Rebuild Kit (Left) 500-6307-10

Flipper Base Plate Kit (Left) 515-6617-01

Kit includes: Flipper Base Plate (Left) pre-threaded with securing hardware; see the Flipper Drawing for view.

Flipper Rebuild Kit (Right) 500-6307-00

Flipper Base Plate Kit (Right) 515-6617-00

*Kit includes: Flipper Base Plate (Left) pre-threaded with securing hardware; see the Flipper Drawing for view.*Pinball Location Maintenance Standard Kit (for Big Buck Pinball) 502-6002-B2*Standard Kit includes : 8 oz. Novus Wax #2 Fine (Red) (675-0003-01), Cloth, Rubber Rings (used above playfield), Bulbs (Bulb quantities vary and is limited to 25 per type), Fuses (1/per type) and 4 Pinballs. Note: Quantities, sizes and contents subject to change without notice.*Pinball Location Maintenance Deluxe Kit (for Big Buck Pinball) 502-6003-B2*Deluxe Kit includes : Pinball Location Maintenance Standard Kit as described above plus a quantity of Flipper Rebuild Kits. Note: Quantity varies which equals the same quantity of flippers used in this game.***▲ THIS GAME KIT INCLUDES (2) FLIPPER REBUILD KITS ▲**

Plastics*Kit (for Big Buck Pinball) 803-5000-B2

Plastics Kit includes: Plastic Sets (830-6103-XX)

Decals*Kit (for Big Buck Pinball) 802-5000-B2

Decals Kit includes: Decal Set (820-6558-XX)

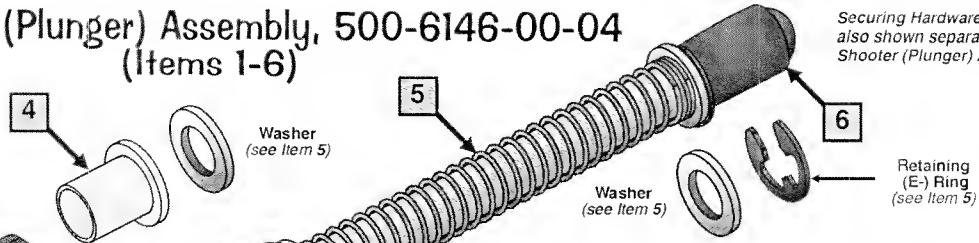
Mylar*Kit (for Big Buck Pinball) 802-5001-B2

*Mylar Kit includes: Full Mylar (820-5999-B2)****Attention: No individual Plastic or Decal can be ordered separately, unless noted otherwise. Plastics & Decals are subject to change without notice during and / or after production. Key Fobs subject to availability and may or may not be included in the plastic set. All designs, shapes & pieces used subject to change without notice. Kit contents subject to change. Service Bulletin(s) will announce any critical changes, if warranted. The last 2-digits shown on plastics or decals are for reference only.**

Ball Shooter (Plunger) Assembly, 500-6146-00-04 (Items 1-6)

Assemble into
Housing in the
following order:

Rod Assembly
(see Item 2),
Short Spring
(see Item 3),
Washer
(see Item 3),
Bushing
(see Item 4)
and then ...



Nr.	BALL SHOOTER PARTS	QTY.	SPI PART Nr.
1	Housing Asm. + Bushings (Item 4)	1	535-5067-02
	Item 1 is secured to the Cabinet by: Support Plate (not included with Item 1 or Assembly) (535-5027-00), #10-32 X 1/2" PPH (Sems) Zinc TF (Qty. 3) (237-6033-00), #10 Split Lock Washer (Qty. 3) (244-5003-00) and #6 X 1/2" HWH AB (Zinc) Red (Qty. 2) (234-5001-02)		
2	Rod Assembly (with Black Knob)	1	515-6557-00
3	Comp. Spring (Short) (Knob Side)	1	266-5010-00
	Item 3 is sandwiched onto Item 2 (Front Side) between the knob and by: Washer, 3/8" I.D. X 5/8" O.D. X 1/16" (Qty. 1 per side) (242-5014-00) and Retaining Ring, 3/8" o Shaft (270-5012-00)		
4	Bushing, 3/8" I.D. (Oilite)	2	280-5010-00
	Item 4 is included with Item 1, Housing, (1 @ the front; 1 @ the back) as shown.		
5	Comp. Spring (Long) [GREEN, .035" o]	1	266-5001-04
	Item 5 is sandwiched onto Item 2 (Rubber Tip Side) by: Washer, 3/8" I.D. X 5/8" O.D. X 1/16" (Qty. 1 per side) (242-5014-00) and Retaining Ring, 3/8" o Shaft (270-5012-00)		
6	Rubber [Plunger] Tip (Black 50 Duro)	1	545-5276-00

Ordering Note: If 500-6146-00-04 is unavailable, order the individual part(s) actually required. ... Identical to 500-6146-00-07 has Comp Spring [Orange, .038" o] (266-5001-07) or 500-6146-00-05 has Comp. Spring [Blue, .031" o] (266-5001-05).

Autoplunger Arm Weld Asm., 500-6091-00 (Items 1-5), Autoplunger Coil Assembly, 500-6092-02-ND (Items 6-9) and Shooter Lane Switch Assembly, 500-6096-00 (Items 10-12)

Nr.	AUTOPL. ARM WELD PARTS	QTY.	SPI PART Nr.
1	Arm Weld Assembly	1	515-6526-00
	Item 1 is secured to Item 2 by: Retaining Ring, 1/4" o Shaft (Qty. 1) (270-5002-00)		
2	Autoplunger Fulcrum	1	535-7697-00
3	Nyliner, 1/4" (Thomson #411-FF)	2	545-5423-00
4	Plunger & Link Assembly	0	511-5183-00
	Item 4 is secured to Item 1 by: Retaining Ring, 1/4" o Shaft (Qty. 1) (270-5002-00)		
	For Individual Items use: Plunger 1.81" Lg. (530-5025-05), Plunger Link (545-5293-00) and Roll Pin 1/8" o x 5/8" Lg. (251-5008-00)		
5	Compression (Return) Spring	1	266-5020-00
	(ASM. REF. 500-6091-00, Items 1-5)		

Nr.	AUTOPLNGR. COIL PARTS	QTY.	SPI PART Nr.
6	Autoplunger Coil Bracket Assembly	1	515-6527-00
	Items 1 & 6 are secured below the P/F by: #8 X 1/2" SHWH AB (Zc.) (Qty. 9) (234-5101-00)		
7	Coil Retainer Bracket	1	535-5203-03
	Item 7 is secured to Item 6 by: #8-32 X 1/4" PPH MS (Sems) Zinc (Qty. 2) (232-5300-00)		
8	Coil, 24-940 [NO DIODE]	1	090-5036-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ☐ COIL NOTE BELOW FOR DETAILS.		
9	Coil Sleeve	1	545-5031-00
	(ASM. REF. 500-6092-02-ND, Items 6-9)		

Nr.	SWITCH PARTS	QTY.	SPI PART Nr.
10	Switch (for Shooter Lane)	1	180-5157-00
	Switch has a Diode (1N4004) (112-5003-00). Can be replaced with (1N4001) (112-5001-00).		
11	Switch Mounting Bracket	1	535-6173-00
	Item 11 is secured to Playfield by: #6 X 1/2" SLT HWH AB (Zinc) (Qty. 2) (234-5001-02)		
12	Switch Body Protect Plate	14	535-6539-00
	Item 12 is secured to Items 10-11 by: #2-56 X 1/2" Unslotted Ser. HWH #4 Head TR3 Black (Qty. 2) (237-5937-02) and #2-56 Hex Nut (Qty. 2) (240-5301-00)		
	(ASM. REF. 500-6096-00, Items 10-12)		

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4-Ball Trough Assembly, 500-6318-24-ND (Items 1-13)

and Associated Parts: See Parts Table Below.

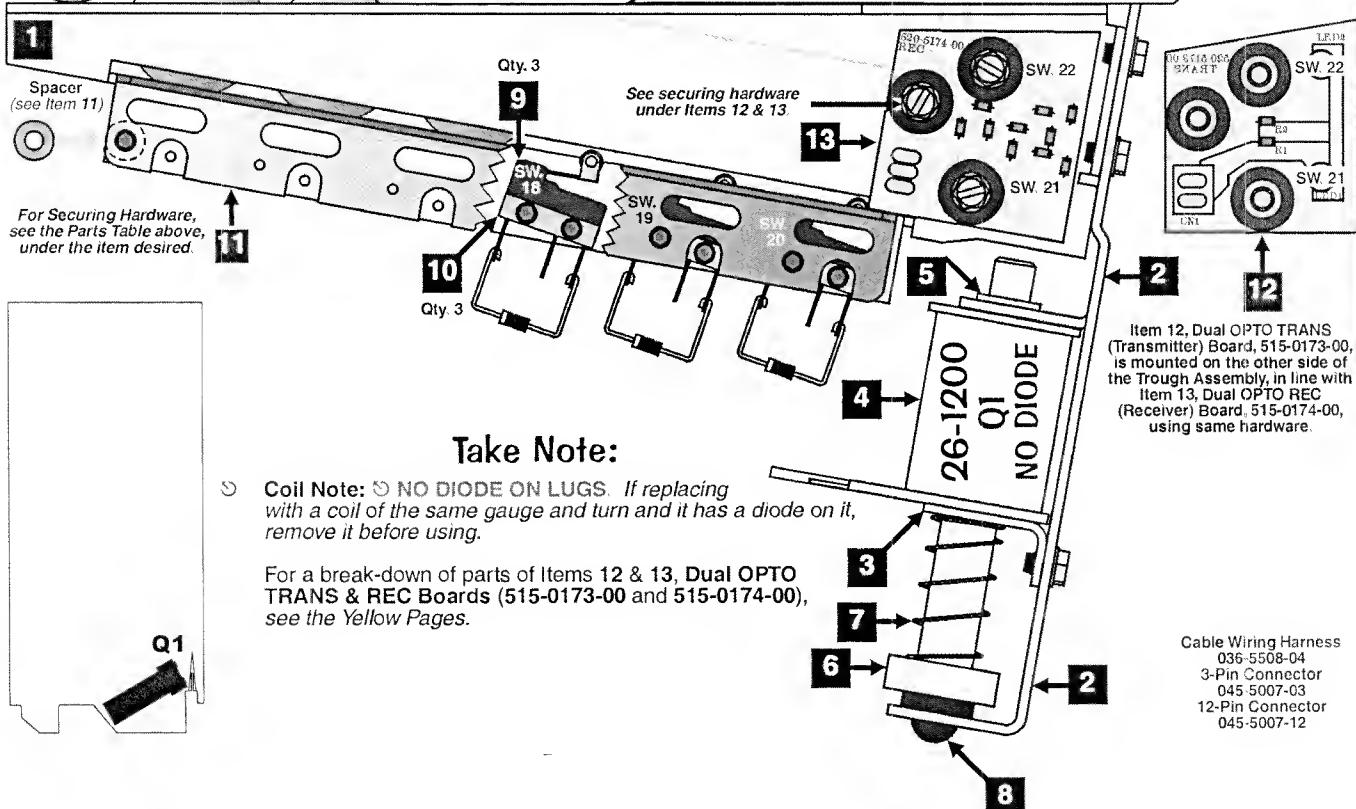
Ordering Note: Identical to 500-6318-14 with exceptions, see note below Item 13 (Parts Table).

Nr.	4-BALL TROUGH PARTS	QTY.	SPI PART Nr.	Nr.	4-BALL TROUGH PARTS	QTY.	SPI PART Nr.
1	Ball Trough Outhole Mounting Bracket	1	515-6580-01	11	Trough Ball Guide Plate	1	535-7801-00
Item 1 is secured below the playfield by:	#8 X 1/2" SHWH AB (Zinc) (Qty. 4) (234-5101-00)			Item 11 is secured to Item 1 by: 1/4" X 5/16" X .144" I.D. Spacer Tap. (Qty. 1) (254-5014-03) and #2-56 X 1/2" HWH (Ser.) UNS #4HD TR3 BO (Qty. 4) (237-5937-02)			
2	Coil Mounting Bracket	1	535-7330-01	12	Dual OPTO TRANS Board Assembly	1	515-0173-00
Item 2 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Sr.) Zinc (Qty. 4) (237-5975-00)				13	Dual OPTO REC Board Assembly	1	515-0174-00
3	Coil Retaining Bracket	1	535-5203-03	Items 12 & 13 are secured by: #6-32 X 5/8" HWH Swg (Ser) Zc (Qty. 3/per) (237-5976-04)			
Item 3 is secured to Item 2 by: #8-32 X 1/4" SHWH (Serr) Zinc (Qty. 2) (237-5975-04)			For Individual Items use: Dual OPTO Transmitter Board (Qty. 1) (520-5173-00), Dual OPTO Receiver Board (Qty. 1) (520-5174-00), OPTO PCB Tube Spacer (Brass) (Qty. 3/per) (530-5308-02) and OPTO PCB Rubber Grommet (Qty. 3/per) (545-5518-00)				
4	Coil, 26-1200 [NO DIODE]	1	090-5044-ND	Ordering Note: If 500-6318-24-ND is unavailable, order the individual part(s) actually required. This assembly is identical to 500-6318-14-ND, -15 or -25 except for the quantity of Items 9 & 10 (Qty. 4/per on 5-Ball Trough) and Item 11, required when a Magnet Mech. is used in the game. -ND means no diode on Item 4. Coil, 26-1200.			
COIL DOES NOT REQUIRE A DIODE. SEE ☺ COIL NOTE BELOW FOR DETAILS							
5	Coil Sleeve (Short) (Formost #10-7077)	1	545-5076-01	ASSOCIATED PARTS ARE NOT INCLUDED WITH THE ABOVE ASSEMBLY.			
6	Steel & Nylon Plunger Asm. (3.57")	1	515-7309-01	Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
7	Compression (Return) Spring	1	266-5020-00	AP-A	Ball Trough Enter / Exit Scoop	1	535-7329-01
8	Rubber Bumper (Grommet)	1	545-5105-00	Item AP-A secured to the playfield by: #8 X 1/2" SHWH AB (Zinc) (Qty. 4) (234-5101-00)			
9	Micro Switch (Roller Actuator, Lite-Force)	3	180-5119-02	AP-B	Steel Balls (1-1/16" Ø)	4	260-5000-00
Item 9 requires: Heat Shrink Tubing 1/8" o PUI-24 (Qty. 1"/per) (605-5006-00)							
Switch has a Diode (1N4004) (112-5003-00). Can be replaced with (1N4001) (112-5001-00).							
10	Switch Body Protect Plate	3	535-6539-00				

Take Special Note:

Item AP-A, Ball Trough Enter / Exit Scoop, 535-7329-01 (not included with the 5-Ball Trough Assembly), is shown floating above and rotated slightly for clarity.

PLAYFIELD CUT-AWAY VIEW

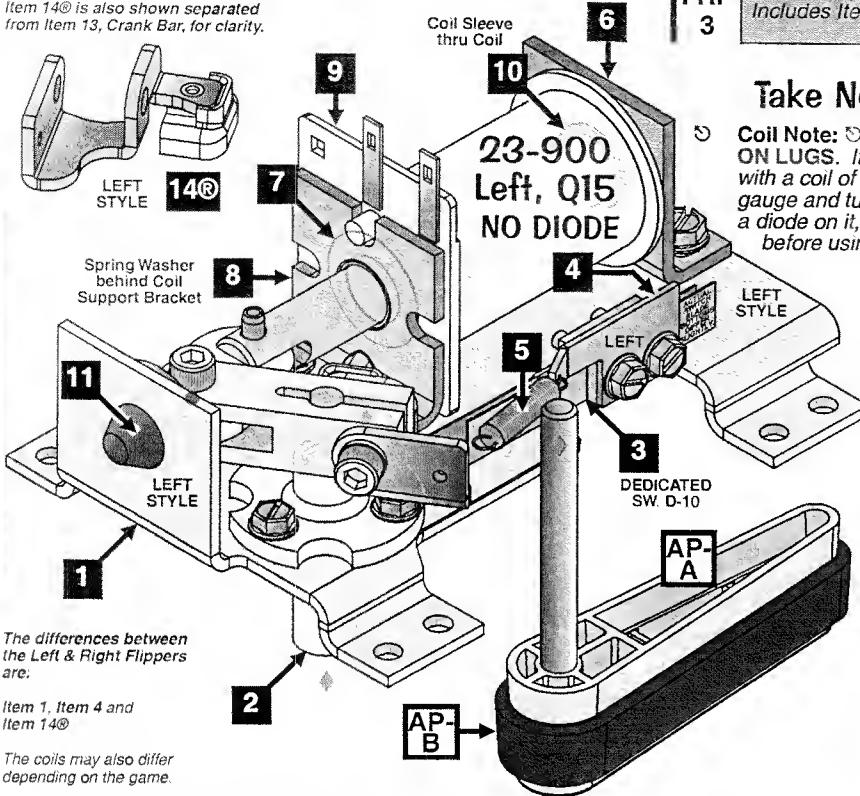


Flipper (Left) Assembly, 500-6543-15-ND (Items 1-15)

and Associated Parts: Yellow Flipper Bat & Shaft Asm., 515-5133-06-06 (Items AP-A / AP-B)

Nr.	FLIPPER (LEFT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (LEFT)	1	See FRP1
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00)		
	Ordering Note: Individual Part (535-7275-01) is not prethreaded, see Item FRP1.		
2	Flipper Bat Bushing (White Plastic) 25" o I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6 32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (LEFT)	1	535-7354-01
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) and #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-900 [NO DIODE] BLUE	1	090-5020-30
	COIL DOES NOT REQUIRE A DIODE. SEE COIL NOTE BELOW FOR DETAILS.		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy	1	515-6304-03
	For Individual Items use: Flipper Plunger (530-5349-01) and Plunger "Flipper" Link (545-5611-01) and is secured to the Plunger by: Bushing, 16" o ID X .281" o OD X .187" (Qty. 1) (530-5532-00) and Spiral Pin o 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" o ID X .312" o OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (LEFT) Sub-Assy.	1	515-7257-01
	For Individual Items use: Actuator & Spring Bracket (LEFT) (535-9038-01) and ® Switch Actuator (White Plastic) (545-5612-00) and is secured to the Bracket by: Rivet, 1/8" o X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) Flipper Link Side Only (240-5203-00) and #10 Split Lock Washer (Qty. 1) Switch Actuator Side Only (244-5003-00)		
	Tool required for Item 15: 5/32" or 4mm Allen Wrench		

Item 14® is also shown separated from Item 13, Crank Bar, for clarity.

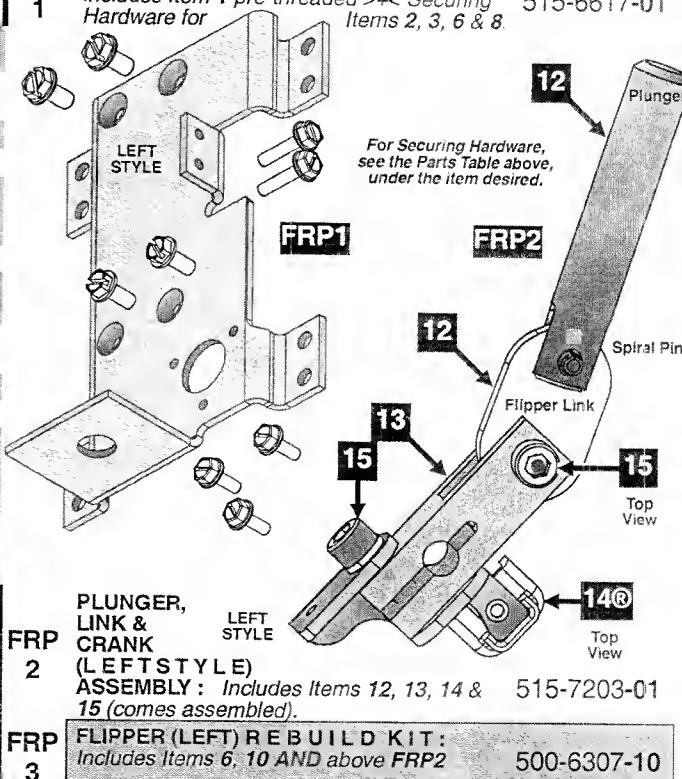


ASSOCIATED PARTS ARE NOT INCLUDED WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	YELLOW Flipper Bat & Shaft Asm. (Non-Knurled End) without Rubber Ring	1	515-5133-06-06
AP-B	Large Flipper RED Rubber Ring	1	545-5277-22

Flipper Rebuild Parts for Easier Installation, Save \$:

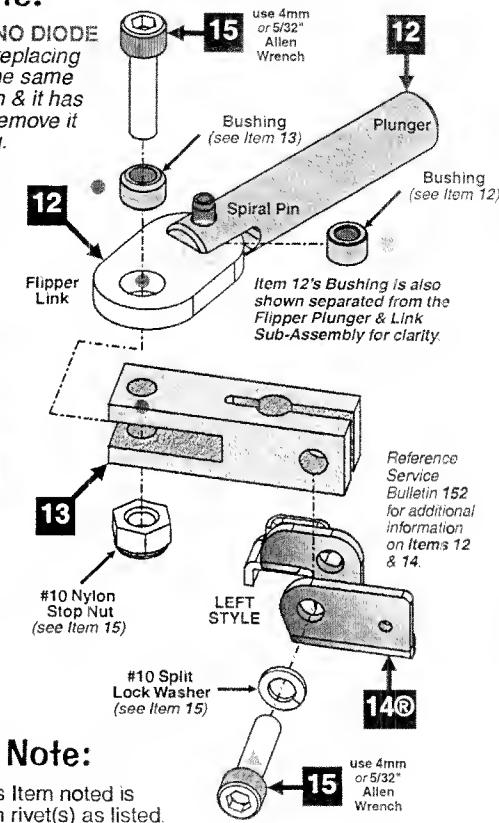
FRP1 FLIPPER BASE PLATE KIT (LEFT): Includes Item 1 pre-threaded >+< Securing Hardware for Items 2, 3, 6 & 8. 515-6617-01



FRP1 FLIPPER (LEFT) REBUILD KIT: Includes Items 6, 10 AND above FRP2 500-6307-10

Take Note:

Coil Note: NO DIODE ON LUGS. If replacing with a coil of the same gauge and turn & turn it has a diode on it, remove it before using.



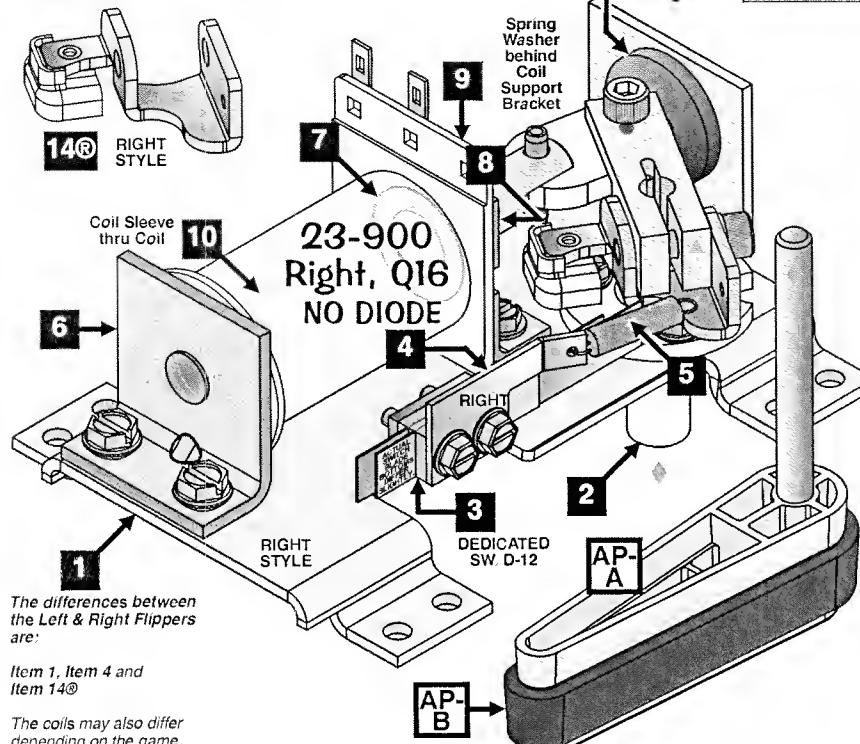
Take Note:

R "R" indicates Item noted is secured with rivet(s) as listed.

Flipper (Right) Assembly, 500-6543-05-ND (Items 1-15)
and Associated Parts: Yellow Flipper Bat & Shaft Asm., 515-5133-06-06 (Items AP-A / AP-B)

Nr.	FLIPPER (RIGHT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (RIGHT)	1	See FRP1
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00)		
	Ordering Note: Individual Part (535-7275-00) is not prethreaded, see Item FRP1		
2	Flipper Bat Bushing (White Plastic) 25" Ø I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6-32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (RIGHT)	1	535-7354-00
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) and #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-900 [NO DIODE] BLUIE	1	090-5020-30
	COIL DOES NOT REQUIRE A DIODE. SEE COIL NOTE PREV PAGE FOR DETAILS		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy	1	515-6304-03
	For Individual Items use: Flipper Plunger (530-5349-01) and Plunger "Flipper" Link (545-5611-01) and is secured to the Plunger by: Bushing, .16" Ø ID X .281" Ø OD X .187" (Qty. 1) (530-5532-00) and Spiral Pin o 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" Ø ID X .312" Ø OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (RIGHT) Sub-Assy	1	515-7257-00
	For Individual Items use: Actuator & Spring Bracket (LEFT) (535-9038-01) and ® Switch Actuator (White Plastic) (545-5612-00) and is secured to the Bracket by: Rivet, 1/8" Ø X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) Flipper Link Side Only (240-5203-00) and #10 Split Lock Washer (Qty. 1) Switch Actuator Side Only (244-5003-00)		
	Tool required for Item 15: 5/32" or 4mm Allen Wrench		

Item 14® is also shown separated from Item 13, Crank Bar, for clarity.



The differences between the Left & Right Flippers are:

Item 1, Item 4 and Item 14®

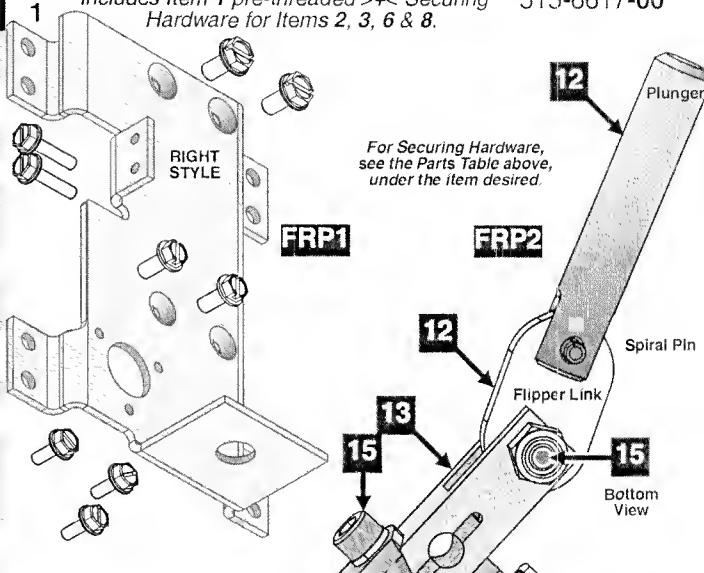
The coils may also differ depending on the game.

ASSOCIATED PARTS ARE NOT INCLUDED WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	YELLOW Flipper Bat & Shaft Asm. (Non-Knurled End) without Rubber Ring	1	515-5133-06-06
AP-B	Large Flipper RED Rubber Ring	1	545-5277-22

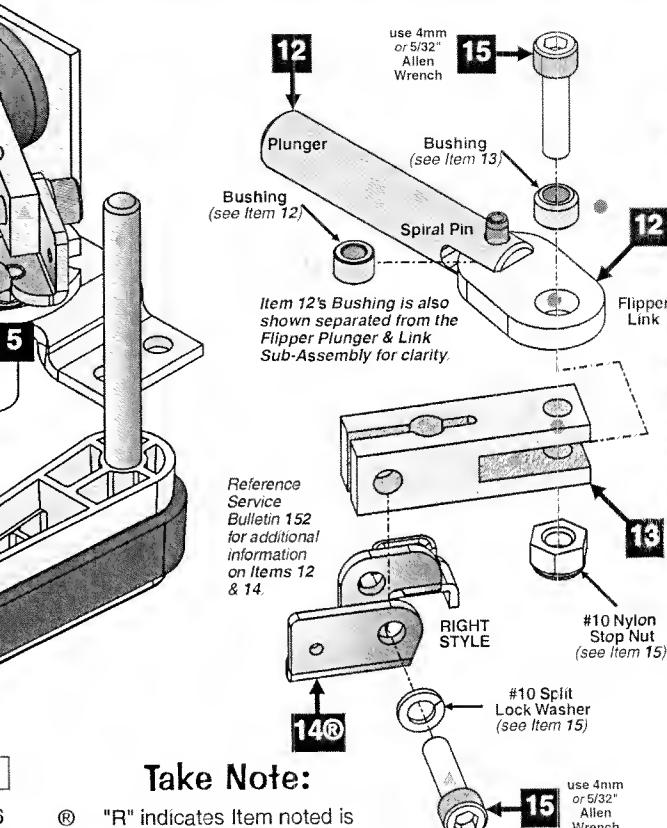
Flipper Rebuild Parts for Easier Installation, Save \$:

FRP **FLIPPER BASE PLATE KIT (RIGHT):** Includes Item 1 pre-threaded >+< Securing Hardware for Items 2, 3, 6 & 8. 515-6617-00



FRP **PLUNGER, LINK & CRANK (RIGHT STYLE) ASSEMBLY:** Includes Items 12, 13, 14 & 15 (comes assembled). 515-7203-00

FRP **FLIPPER (RIGHT) REBUILD KIT:** Includes Items 6, 10 AND above FRP 500-6307-00



Take Note:

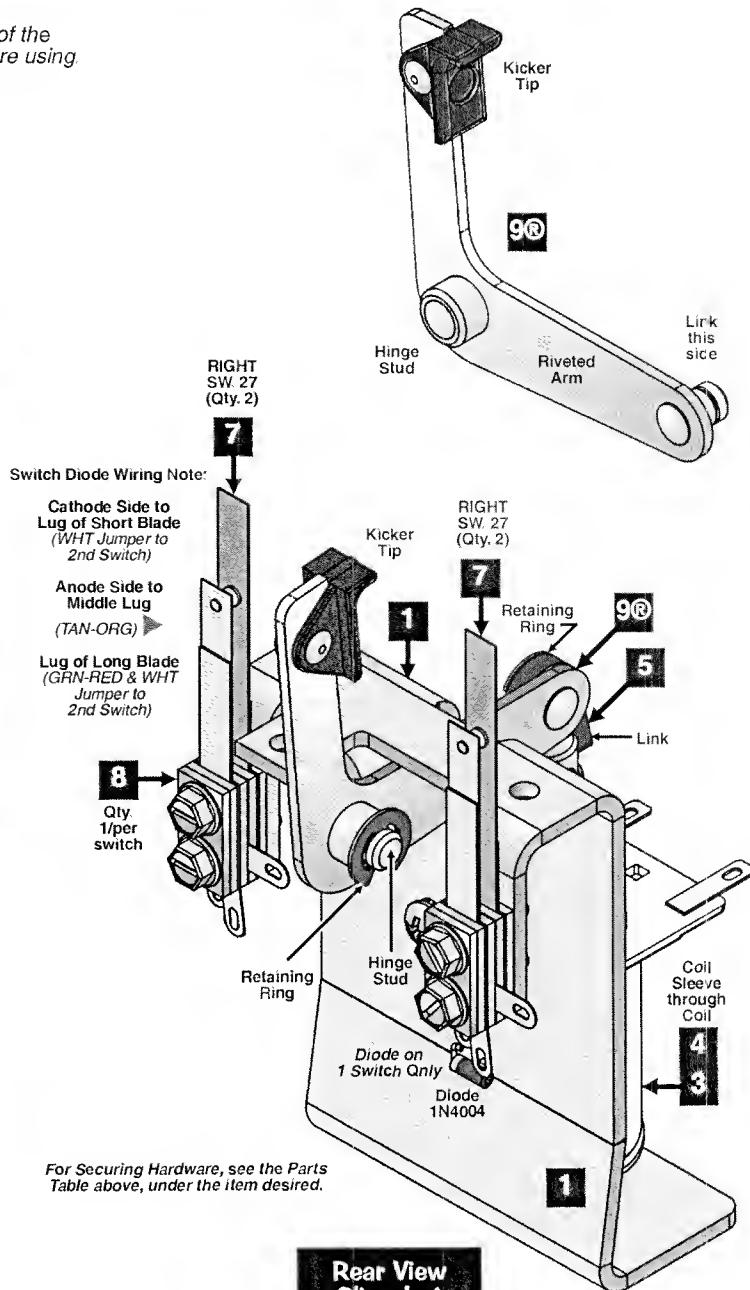
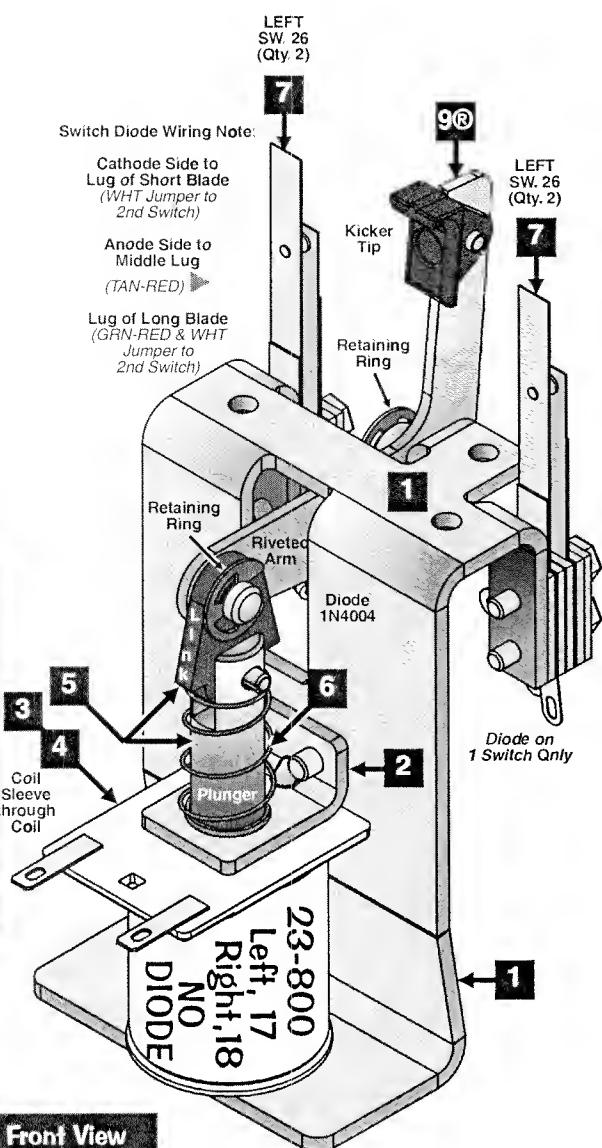
® "R" indicates Item noted is secured with rivet(s) as listed.

use 4mm or 5/32" Allen Wrench

Slingshot (Left & Right) Assemblies, 500-5849-00-ND (Qty. 2) (Items 1-9)

Take Note:

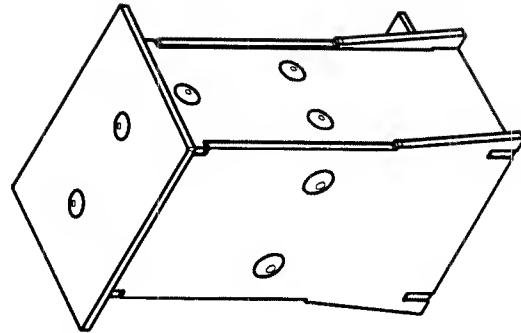
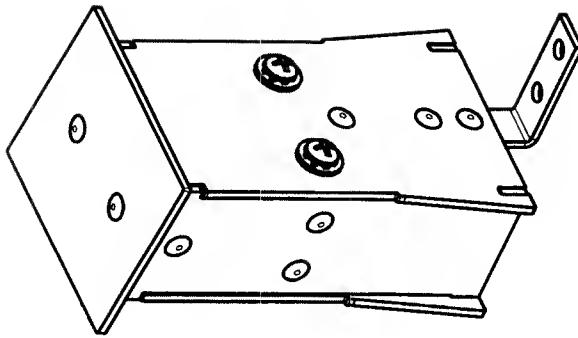
- ⑤ **Coil Note:** ☀ NO DIODE ON LUGS. If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.
- ⑥ "R" indicates Item noted is secured with rivet(s) as listed.



Assemblies & Ramps

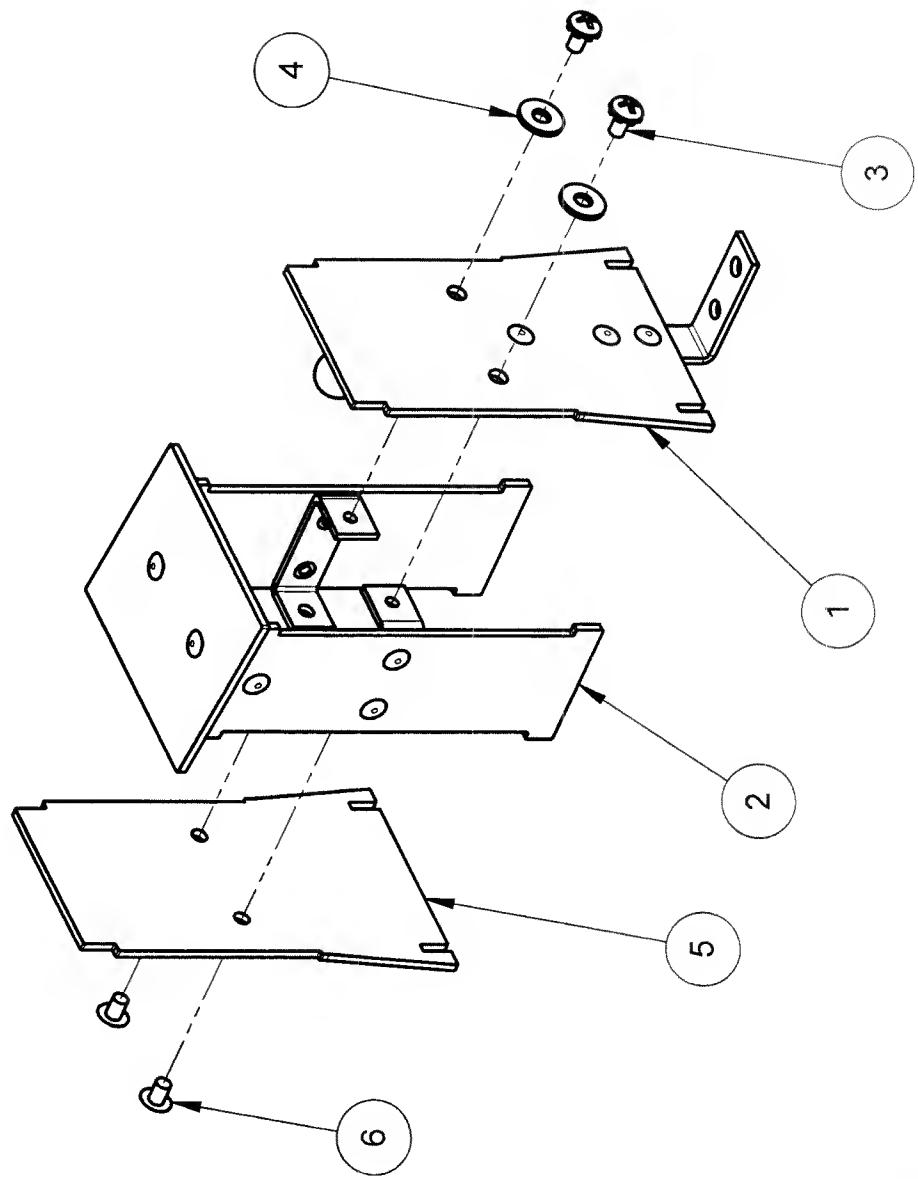
Front View Slingshot (Left)

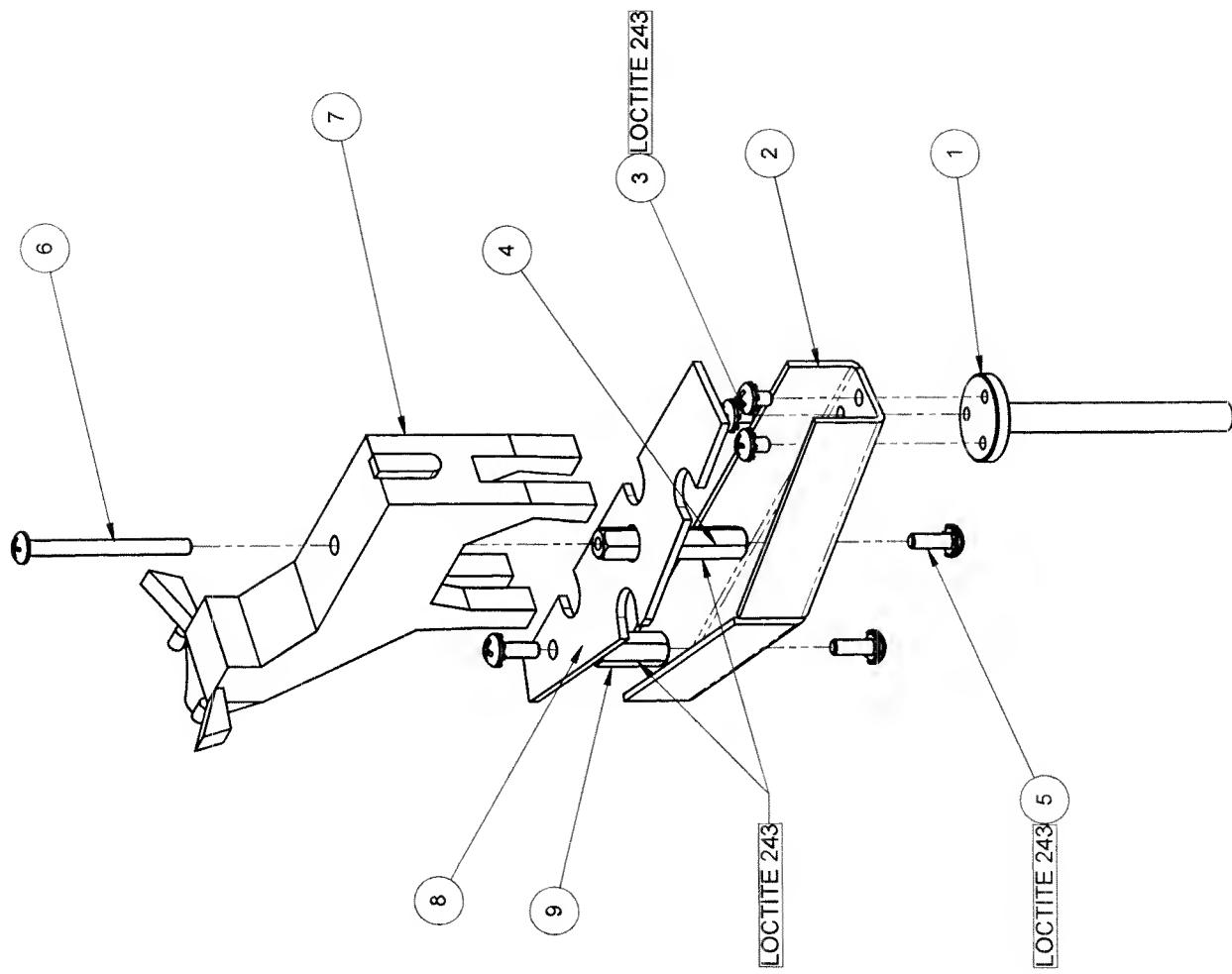
Rear View Slingshot (Right)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	510-5100-20	RIVETED ASSY, BLIND - REAR, BBH	1
2	510-5100-19	RIVETED ASSY, BLIND SIDE/TOP, BBH	1
3	232-5200-00	SCREW, 6-32 X 1/4" PPH SEMS	2
4	242-5001-00	#6 WASHER	2
5	830-6103-19	BUTYRATE #19, DEER BLIND FRONT, BBH	1
6	249-5025-00	POP RIVET - 1/8D X 1/8-3/16 GRIP	2

ASSEMBLY, DEER BLIND, BBH
511-5217-20





ITEM #	QTY	PART #	DESCRIPTION
1	1	530-6560-00	SHAFT - ELK PLATFORM
2	1	535-0334-00	PLATFORM - ELK
3	3	232-5209-00	SCREW, 6-32 X 3/16" PPH SEMS
4	1	254-5008-34	HEX SPACER - 1 5/16"
5	3	232-5201-00	SCREW, 6-32 X 3/8" PPH MS SEMS
6	1	237-5510-00	SCREW, 6-32 X 1-1/2" PPH
7	1	880-5110-06-ASY	ELK - FASTENED
8	1	830-6103-26	BUTY #26 - ELK
9	1	254-5008-02	HEX SPACER - 5/8 "

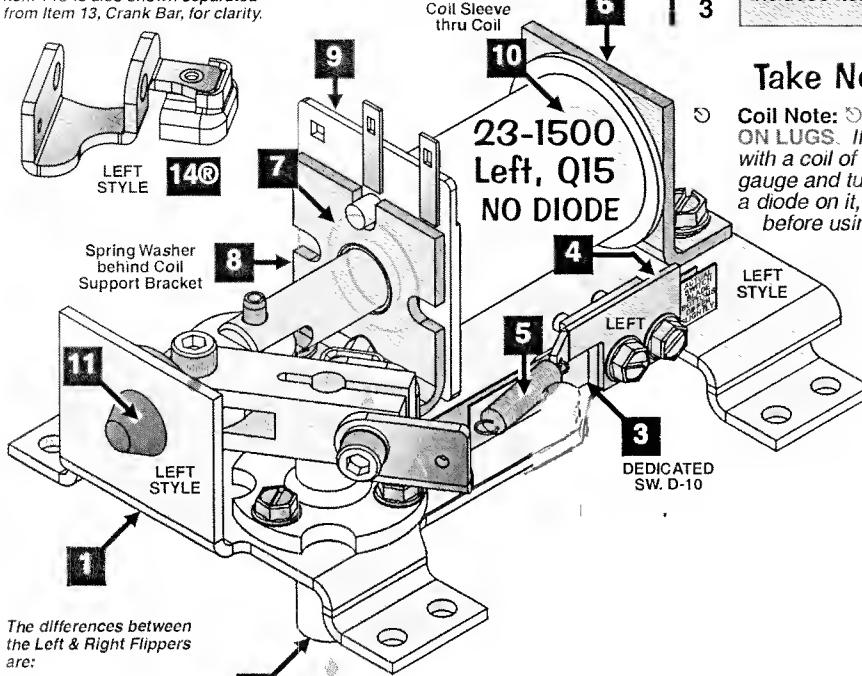
PLATFORM ASSEMBLY - ELK

511-5232-00

Flipper (Left Assembly, 500-6543-15-ND (Items 1-15)

Nr.	FLIPPER (LEFT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (LEFT)	1	See FRP1
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00)		
	Ordering Note : Individual Part (535-7275-01) is not prethreaded, see item FRP1.		
2	Flipper Bat Bushing (White Plastic) .25" Ø I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6-32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (LEFT)	1	535-7354-01
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) and #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-1500 [NO DIODE] BLUE	1	090-5062-ND
	COIL DOES NOT REQUIRE A DIODE. SEE COIL NOTE BELOW FOR DETAILS.		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy.	1	515-6304-03
	For Individual Items use : Flipper Plunger (530-5349-01) and Plunger "Flipper" Link (545-5611-01) and is secured to the Plunger by: Bushing, .16" Ø ID X .281" Ø OD X .187" (Qty. 1) (530-5532-00) and Spiral Pin ø 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" Ø ID X .312" Ø OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (LEFT) Sub-Assy.	1	515-7257-01
	For Individual Items use : Actuator & Spring Bracket (LEFT) (535-9038-01) and ® Switch Actuator (White Plastic) (545-5612-00) and is secured to the Bracket by: Rivet, 1/8" Ø X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) Flipper Link Side Only (240-5203-00) and #10 Split Lock Washer (Qty. 1) Switch Actuator Side Only (244-5003-00)		
	Tool required for Item 15: 5/32" or 4mm Allen Wrench		

Item 14® is also shown separated from Item 13, Crank Bar, for clarity.



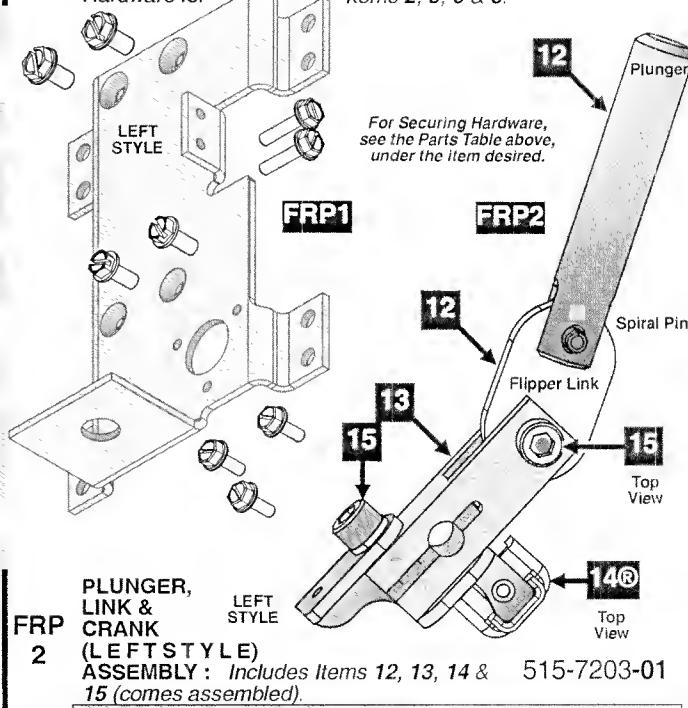
The differences between the Left & Right Flippers are:

Item 1, Item 4 and Item 14®

The coils may also differ depending on the game.

Flipper Rebuild Parts for Easier Installation, Save \$:

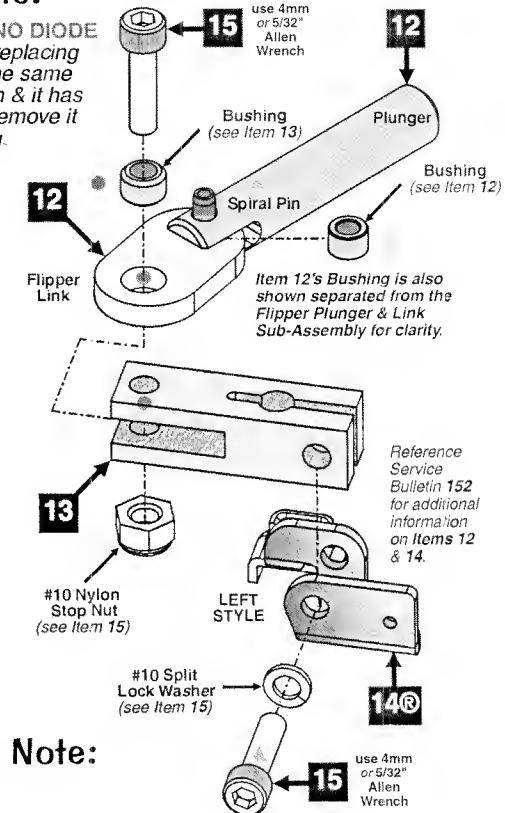
FRP1 FLIPPER BASE PLATE KIT (LEFT) : Includes Item 1 pre-threaded >+< Securing Items 2, 3, 6 & 8. 515-6617-01



FRP2 FLIPPER (LEFT) REBUILD KIT: Includes Items 6, 10 AND above FRP2 500-6307-10

Take Note:

Coil Note: ☺ NO DIODE ON LUGS. If replacing with a coil of the same gauge and turn & turn it has a diode on it, remove it before using.



UPPER CARRIAGE ASSEMBLY

511-5226-00

ITEM #	QTY	PART #	DESCRIPTION
1	1	515-7723-00	PLATFORM
2	1	535-0324-00	PIVOT PLATE
3	4	530-6555-00	STEEL SPACER
4	1	511-5227-00	ACTUATOR ASSEMBLY
5	1	266-5094-03	COMPRESSION SPRING - DEER
6	1	535-0325-00	ACTUATOR CAP
7	6	240-53-03-00	4-40 NYLON LOCK NUT
8	1	545-6800-00	LOWER ACTUATOR HOUSING
9	2	545-6802-00	GLIDE PAD
10	4	237-61197-00	SCREW 4-40 X 3/16 PFH U/C 18-8 SS
11	1	237-55-16-00	SCREW 6-32 X 1-5/8" PPH
12	2	237-5852-00	4-40 X 1-1/8" PPH MS
13	1	545-6803-00	UPPER ACTUATOR HOUSING
14	2	242-5002-00	#4 FLAT WASHER - 5/16" O.D.
15	1	545-5348-07	BLACK RUBBER - 1-1/2" ID
16	1	880-5110-01-ASY	DEER - FASTENED
17	1	232-5209-00	SCREW 6-32 X 3/16" PPH SEMS
18	1	535-0349-00	BALL CATCHER - DEER

11 [LOCTITE 243]

16

18

15

8

7

14

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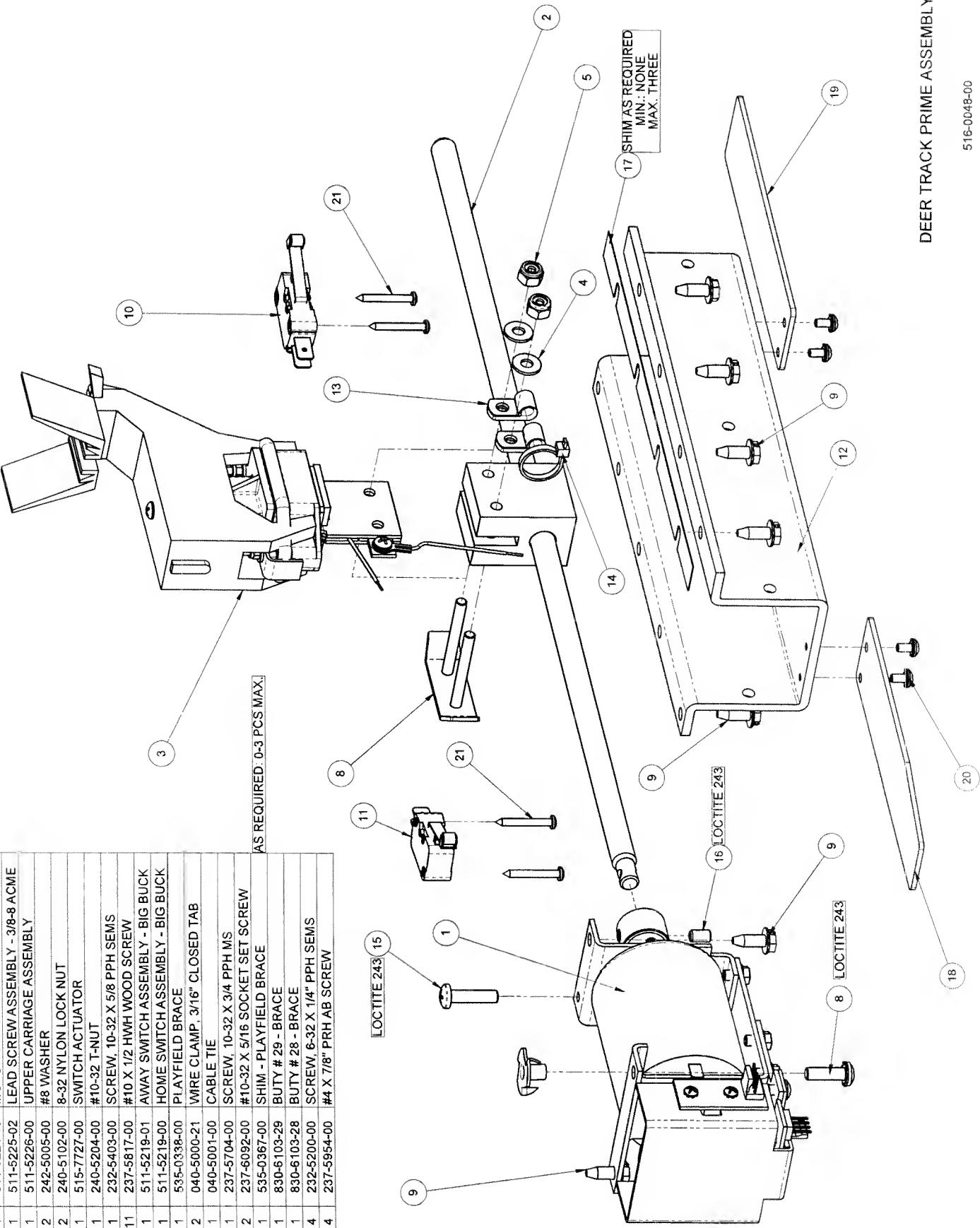
17

CONNECT GREEN LEAD HERE
THIS SIDE - FACING DOWN

6

11/12/09

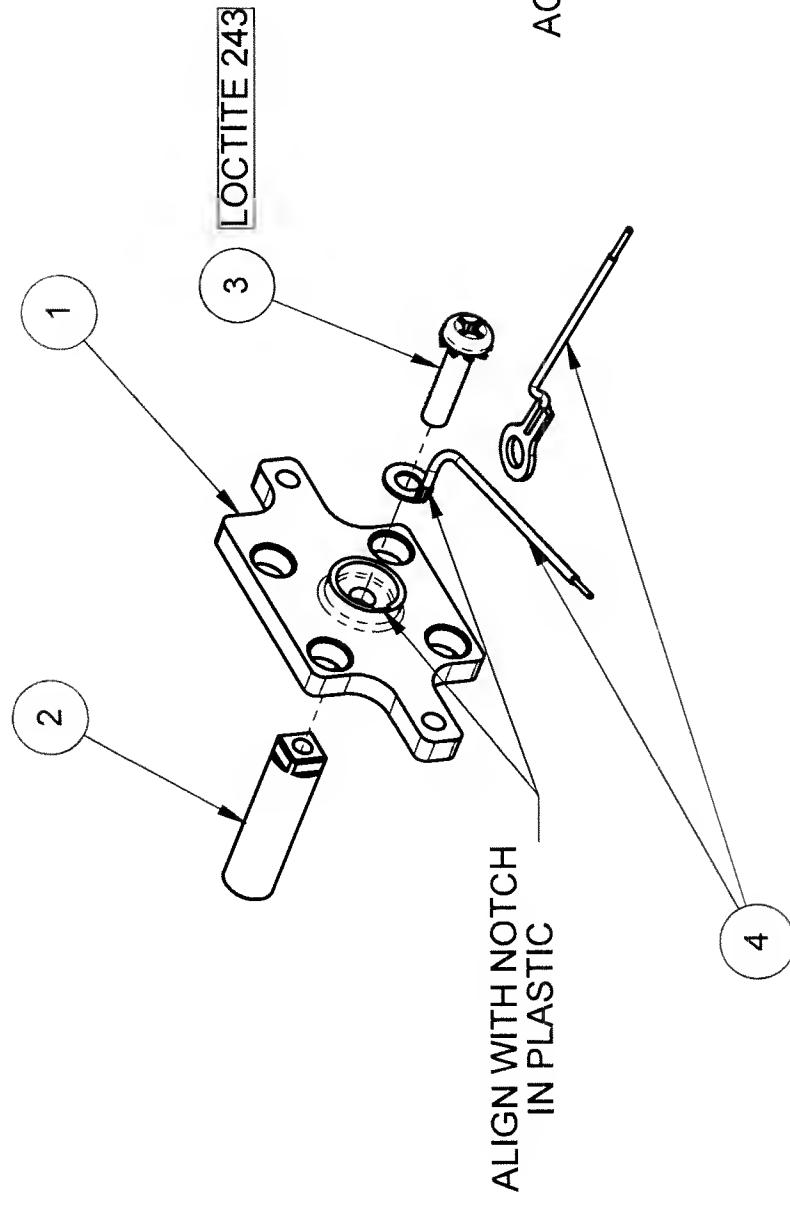
DEER TRACK PRIME ASSEMBLY



ITEM #	QTY	PART #	DESCRIPTION
1	1	511-5224-00	MOTOR/BRACKETS ASSEMBLY
2	1	511-5225-02	LEAD SCREW ASSEMBLY - 3/8-8 ACME
3	1	511-5226-00	UPPER CARRIAGE ASSEMBLY
4	2	242-5005-00	#8 WASHER
5	2	240-5102-00	8-32 NYLON LOCK NUT
6	1	515-7727-00	SWITCH ACTUATOR
7	1	240-5204-00	#10-32 T-NUT
8	1	232-5403-00	SCREW, 10-32 X 5/8 PPH SEMS
9	11	237-5817-00	#10 X 1/2 HWH WOOD SCREW
10	1	511-5219-01	AWAY SWITCH ASSEMBLY - BIG BUCK
11	1	511-5219-00	HOME SWITCH ASSEMBLY - BIG BUCK
12	1	535-0338-00	PLAYFIELD BRACE
13	2	040-5000-21	WIRE CLAMP, 3/16" CLOSED TAB
14	1	040-5001-00	CABLE TIE
15	1	237-5704-00	SCREW, 10-32 X 3/4 PPH MS
16	2	237-6092-00	#10-32 X 5/16 SOCKET SET SCREW
17	1	535-0367-00	SHIM - PLAYFIELD BRACE
18	1	830-6103-29	BUTY # 29 - BRACE
19	1	830-6103-28	BUTY # 28 - BRACE
20	4	232-5200-00	SCREW, 6-32 X 1/4" PPH SEMS
21	4	237-5954-00	#4 X 7/8" PRH AB SCREW

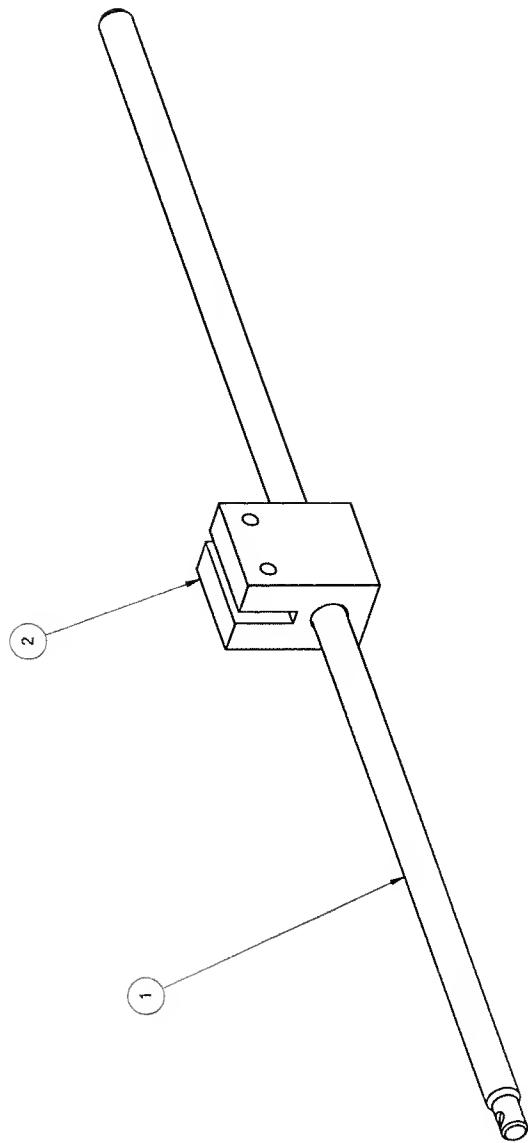
516-0048-00

ITEM #	QTY	PART #	DESCRIPTION
1	1	545-6799-00	ACTUATOR PLATE
2	1	530-6556-00	ACTUATOR POST
3	1	232-5203-00	SCREW, 6-32 x 5/8 PPH SEMS ZINC
4	1	036-5546-11-B2	CABLE - DEER SWITCH



ACTUATOR ASSEMBLY

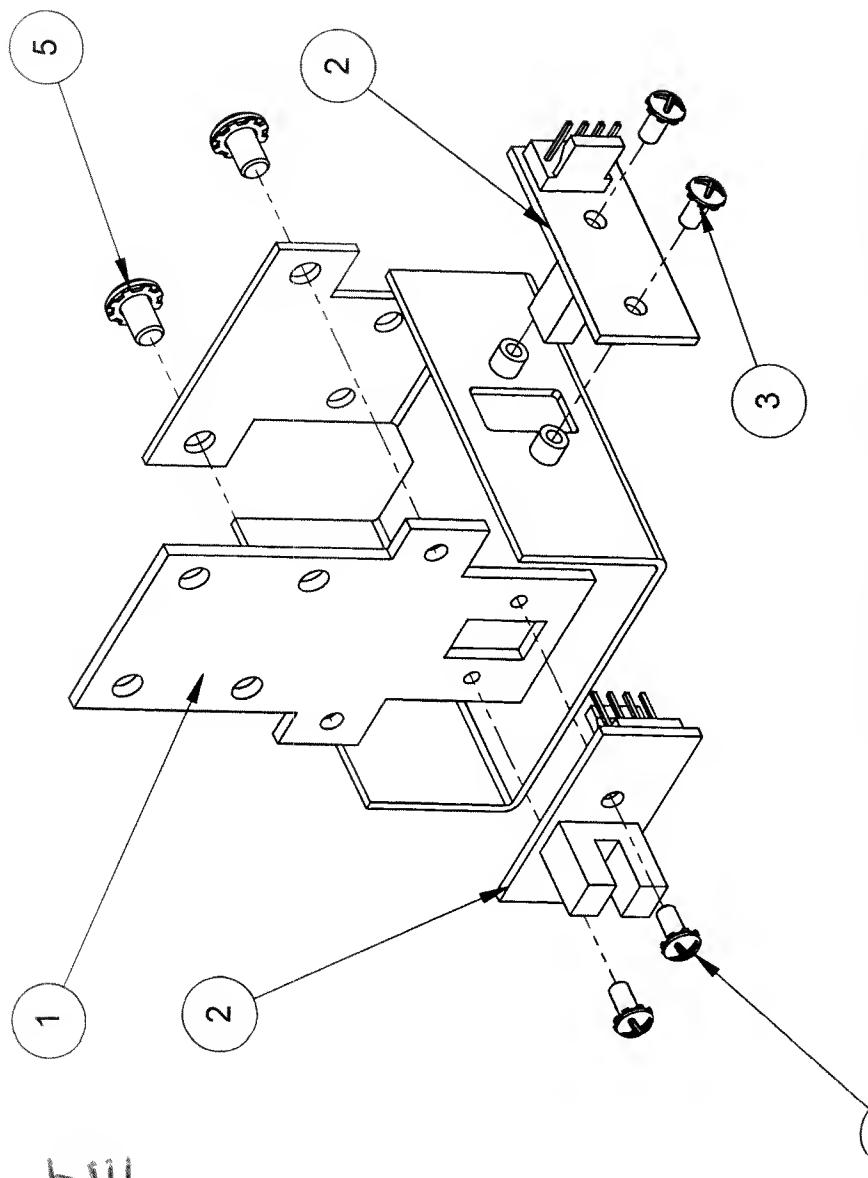
511-5227-00



ITEM #	QTY	PART #	DESCRIPTION
1	1	530-6554-02	LEAD SCREW - 3/8"-8 X 17"
2	1	545-6801-01	LOWER CARRIER - THREADED

LEAD SCREW ASSEMBLY - 3/8-8 ACME

D13

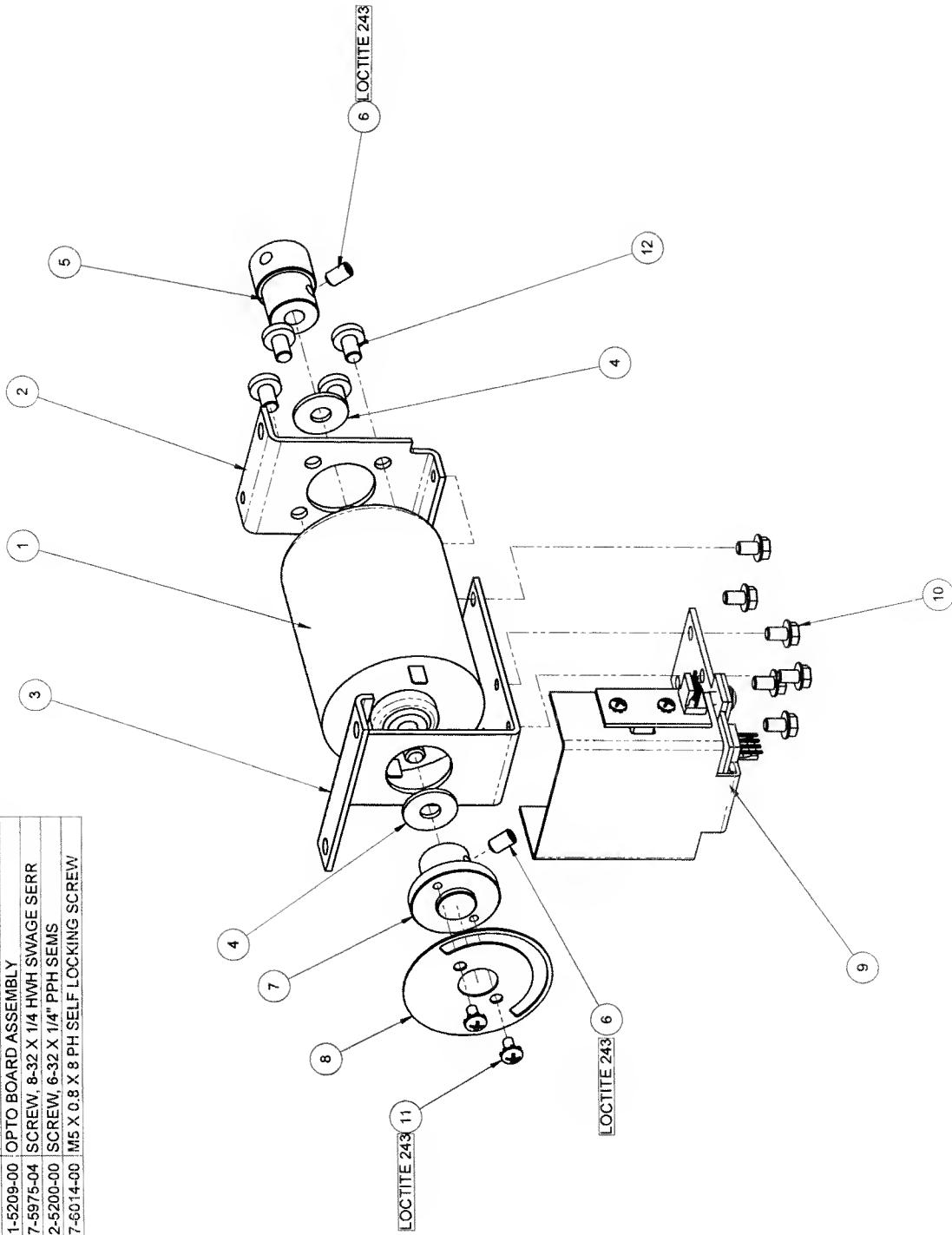


ITEM #	QTY	PART #	DESCRIPTION
1	1	535-0307-00	OPTO BRACKET
2	2	520-5292-01	OPTO INTERRUPTOR BOARD - STRAIGHT CONNECTOR
3	4	237-5909-00	SCREW, 4-40 X 1/4" PPH SEMS
4	1	515-7728-00	OPTO COVER
5	2	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS

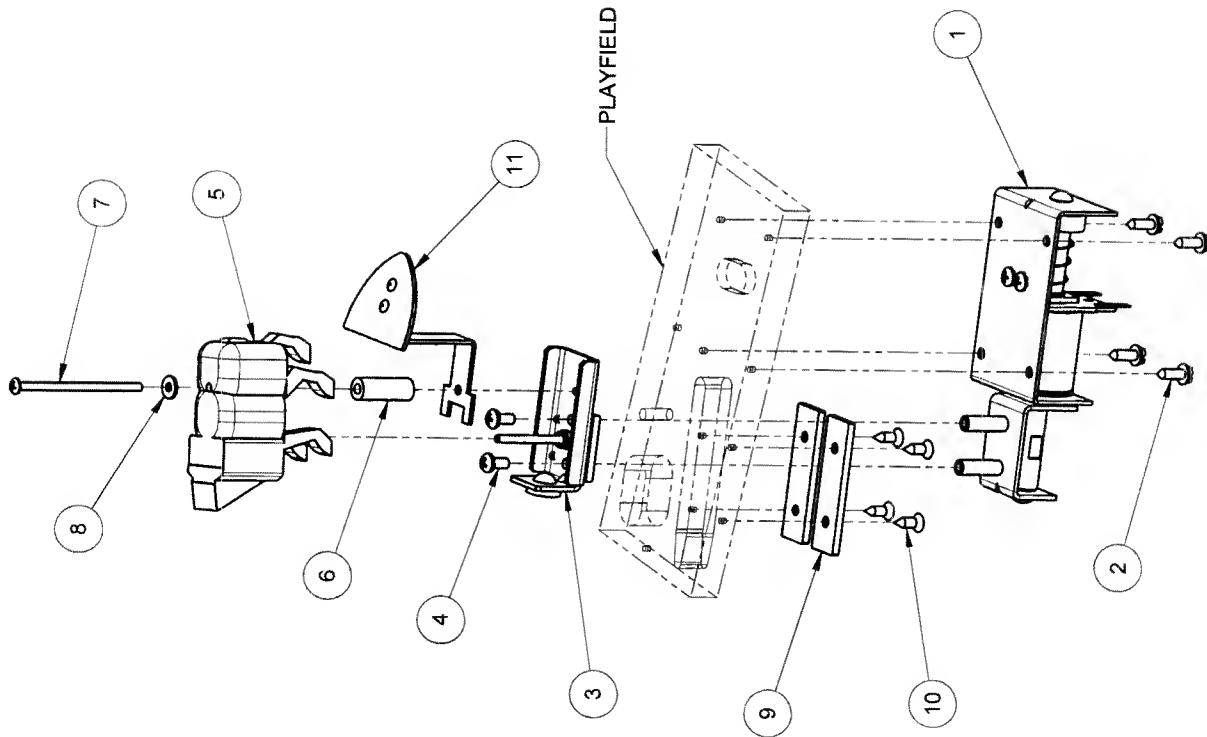
OPTO BOARD ASSEMBLY

511-5209-00

MOTOR/BRACKETS ASSEMBLY

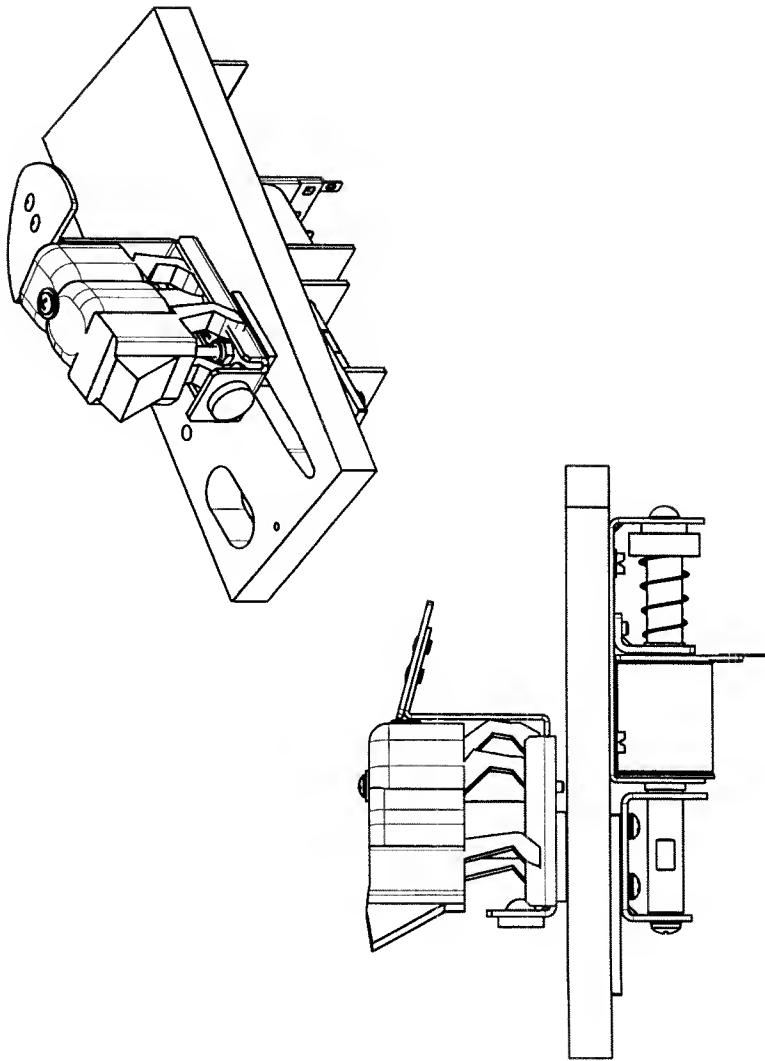


ITEM #	QTY	PART #	DESCRIPTION
1	1	511-5190-00	SOLDER ASSY - SPINNING DISK MOTOR
2	1	535-0321-00	MOTOR BRACKET
3	1	535-0322-00	MOTOR OPTO MTG. BRACKET
4	2	242-5028-00	WASHER NYLON 265 X 688 X .063
5	1	530-6550-02	HUB
6	2	237-6092-00	#10-32 X 5/16 SOCKET SET SCREW
7	1	530-6550-01	HUB
8	1	535-0308-00	OPTO DISK
9	1	511-5209-00	OPTO BOARD ASSEMBLY
10	6	237-59975-04	SCREW, 8-32 X 1/4 HWH SWAGE SERR
11	2	232-5200-00	SCREW, 6-32 X 1/4" PPH SEMS
12	4	237-6014-00	M5 X 0.8 X 8 PH SELF LOCKING SCREW

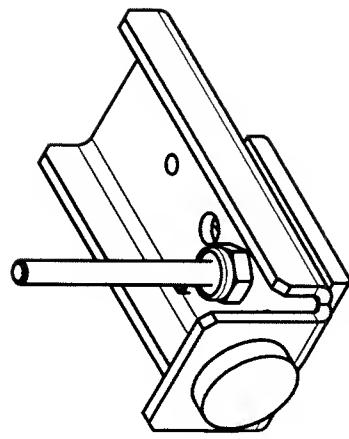
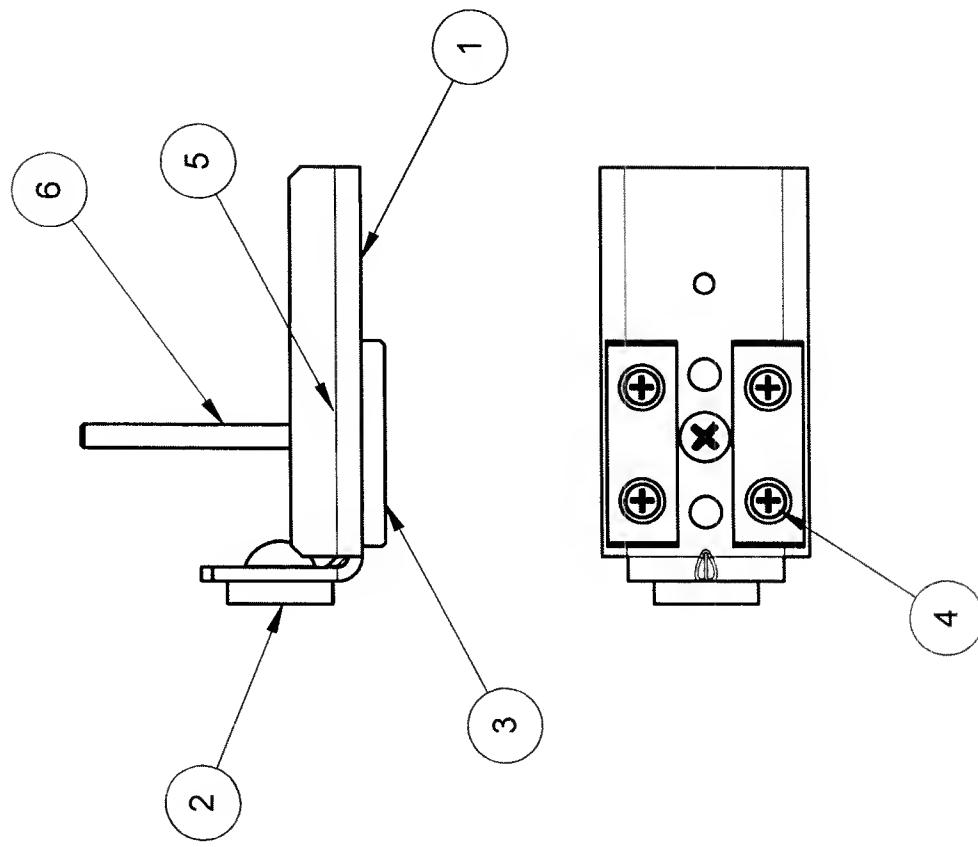


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	500-7166-00	ASSEMBLY, RAM KICKER, BIG BUCK	1
2	234-5101-00	SCREW, #8 X 1/2" SLT HWH AB ZINC	4
3	511-5231-00	ASSEMBLY, RAM MOUNT BRKT, BBH	1
4	232-5301-00	SCREW, 8-32 X 3/8" PPH SEMS	2
5	880-5110-04-ASY	RAM TOY, MODIFIED, BIG BUCK	1
6	254-5000-04	SPACER - 1" GRAY	1
7	237-5514-01	SCREW, 6-32 X 2-1/2" PPH MS (ZINC)	1
8	242-5001-00	#6 WASHER	1
9	545-6325-01	GLIDE PLATE, ARK BLOCK	2
10	237-5812-00	SCREW, #8 X 1/2 PFH AB	4
11	510-5100-27	RIVETED ASSY, BUTY #27, BBH	1

PRIME ASSEMBLY, RAM MECH, BBH

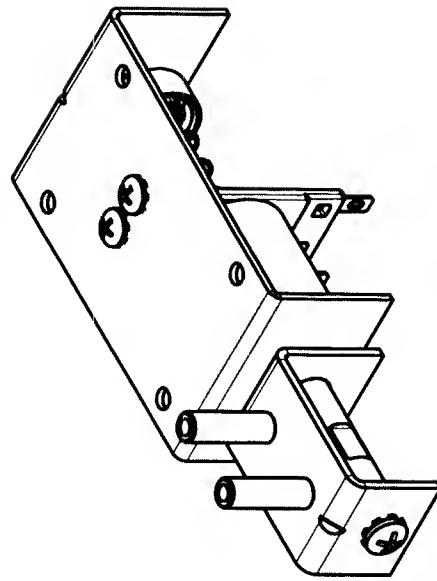


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0329-00	MOUNT BRACKET, RAM, BBH	1
2	545-5105-00	RUBBER BUMPER	1
3	545-6805-00	GLIDE PAD, RAM MOUNT, BBH	2
4	237-5983-02	SCREW, 4-40 X 1/4" PFH MS - BLACK	4
5	240-5005-00	6-32 NYLOK STOP NUT	1
6	237-5510-00	SCREW, 6-32 X 1-1/2" PPH	1



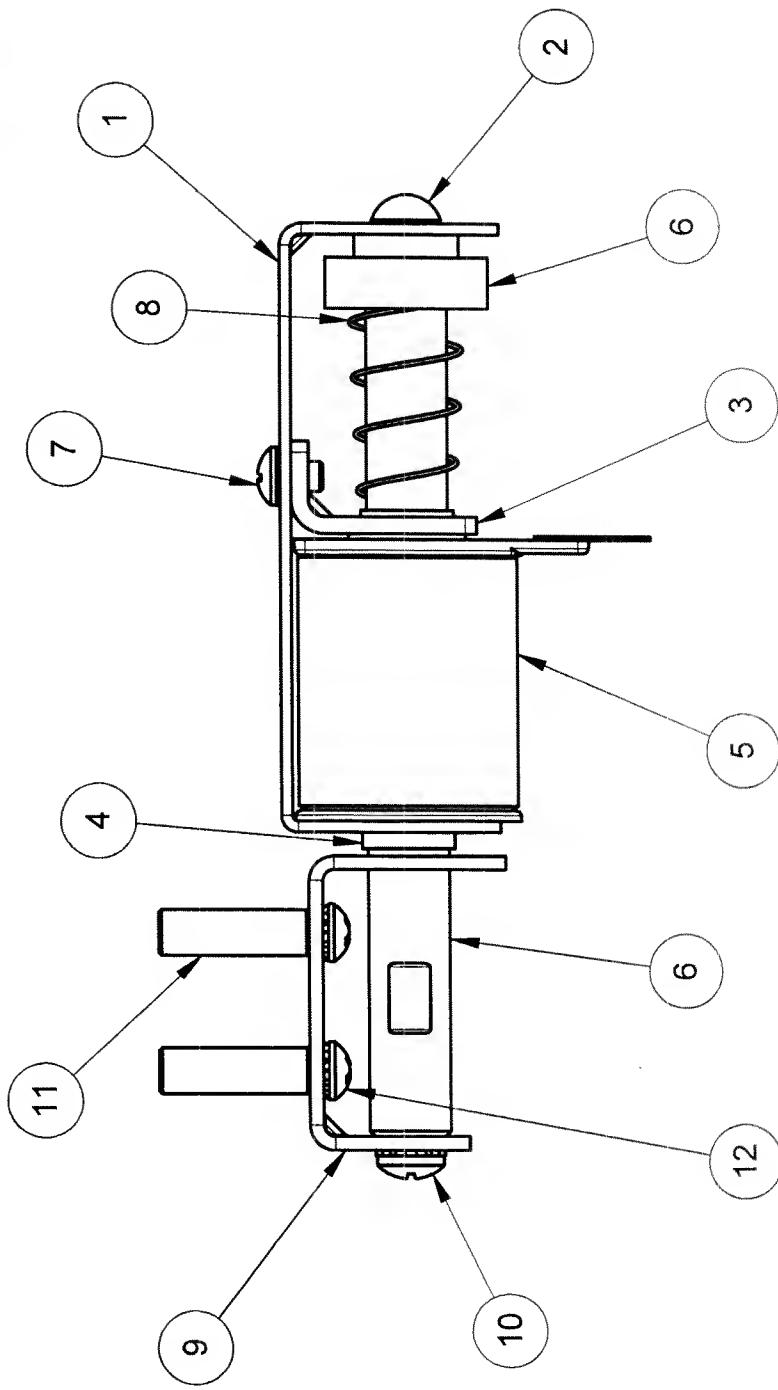
ASSEMBLY, RAM MOUNT BRKT, BBH
511-5231-00

ASSEMBLY, RAM KICKER, BIG BUCK
500-7166-00



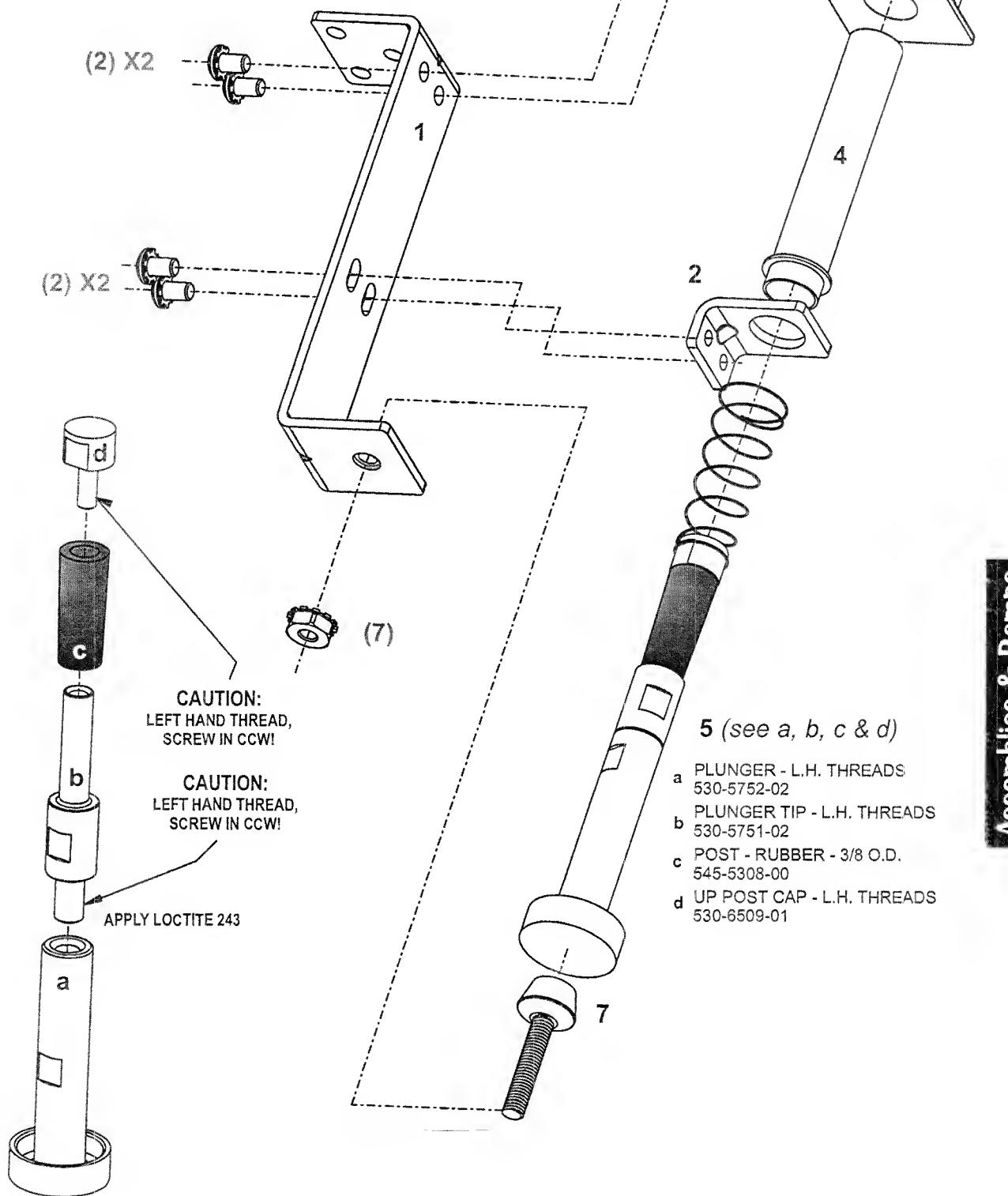
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0327-00	MOUNT BRACKET, RAM KICKER, BBH	1
2	545-5105-00	RUBBER BUMPER	1
3	535-5203-03	COIL RETAINING BRACKET	1
4	545-5076-01	COIL SLEEVE	1
5	090-5001-ND	COIL - 23-800, NO DIODE	1
6	515-7726-00	PLUNGER ASSY, RAM KICKER, BBH	1
7	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	2
8	266-5020-00	COMPRESSION SPRING-CONICAL	1
9	535-0328-00	DRIVE BRACKET, RAM KICKER, BBH	1
10	232-5401-00	SCREW, 10-32 X 3/8 PPH SEMS	1
11	254-5060-00	SPACER, Ø1/4" X 13/16", 8-32 HOLE	2
12	232-5301-00	SCREW, 8-32 X 3/8" PPH SEMS	2
99*	036-5542-00	CABLE, GENERIC D/T	1

* ITEM NOT SHOWN



Up/Down Post Assembly. 500-7153-04 (Items 1-7)

NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-9248-00	BRACKET	1
2	535-5203-03	COIL RETAINING BRACKET	2
3	090-5044-ND	COIL 26-1200 - NO DIODE	1
4	545-5847-00	COIL SLEEVE	1
7	280-5014-00	ADJUSTABLE BUMPER/STOP	1
5	515-5198-01	PLUNGER ASM. (CAPPED) <small>LEFT HAND THREAD</small>	1
6	266-5022-00	COMPRESSION SPRING-CONICAL	1
(2)	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	4
(7)	240-5208-00	#10-32 KEPS NUT	1

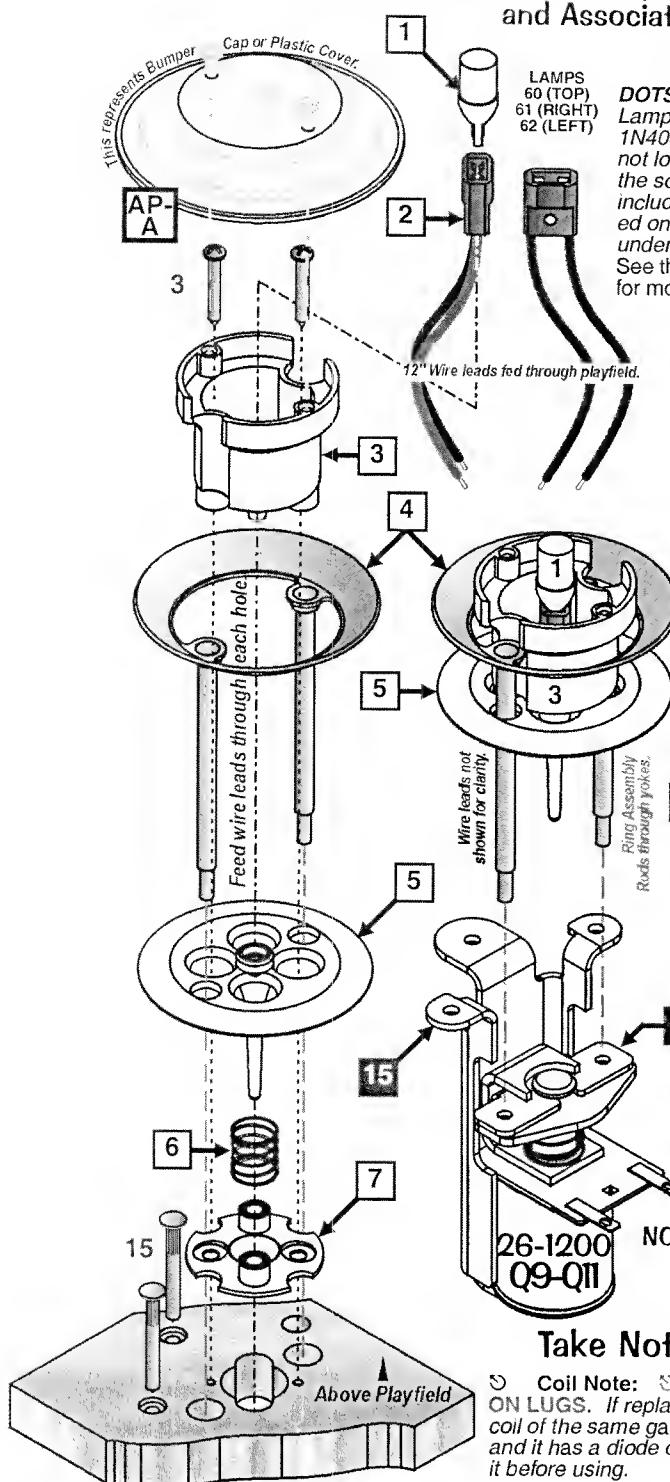


Left, Right & Bottom Bumper & Switch Individual Parts Only (Items 1-18)

and Associated Part: See Parts Table Below.

Take Note:

DOTS: The Lamp Diode, 1N4004, is not located on the socket (nor included); it's located on a Terminal Strip under the playfield. See the Yellow Pages for more details.

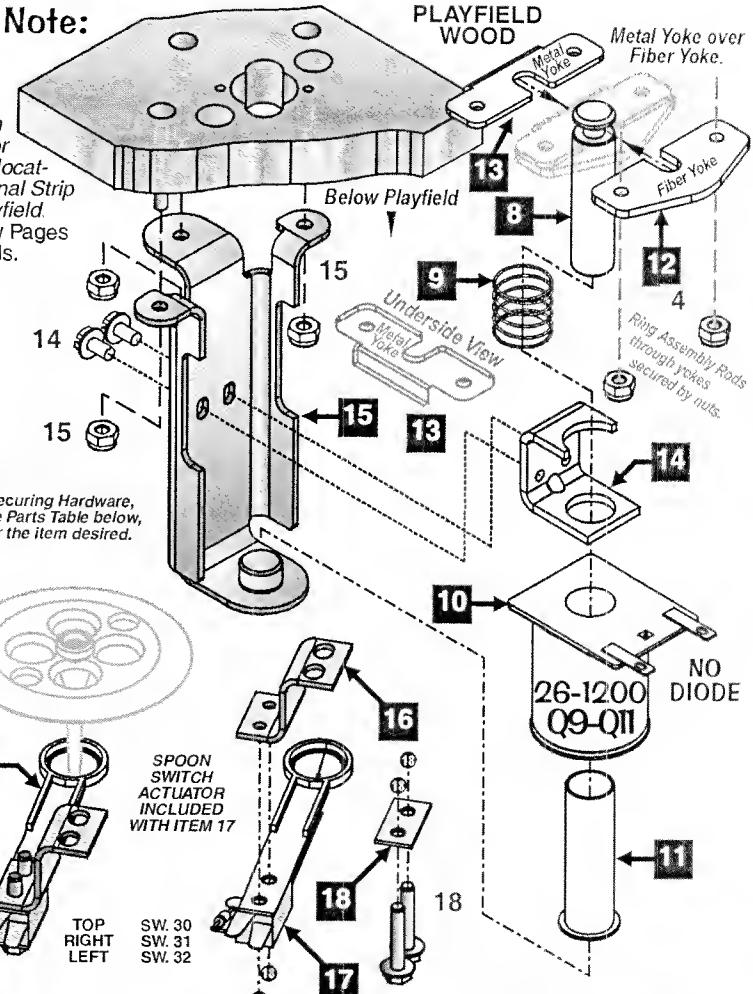


Take Note:

Coil Note: NO DIODE ON LUGS. If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.

Nr.	BUMPER TOP PARTS	QTY.	SPI PART Nr.
1	LED Module (WHT) (6.3v) Wedge Base	1/per	112-5024-08
2	Wedge Base Socket	1/per	077-5206-00
3	Bumper Body	1/per	545-5197-00
	Item 3 is secured above the P/F by: #5 X 7/8" PRH AB (Zinc) (Qty. 2/per) (237-5826-00)		
4	Ring Assembly	1/per	515-5085-00
	Item 4 is secured by: #6-32 Nylon Stop Nut (Qty. 2/per) (240-5005-00)		
5	Bumper Skirt (Switch Actuator)	1/per	545-5607-00
6	Bumper Skirt Compression Spring	1/per	266-5048-00
7	Bumper Base	1/per	545-5195-00
	(ASM. REF. 515-6459-01L (Qty. 3), Items 1-7		

The Top & Bottom Assemblies are secured together by hardware noted in Item 4.

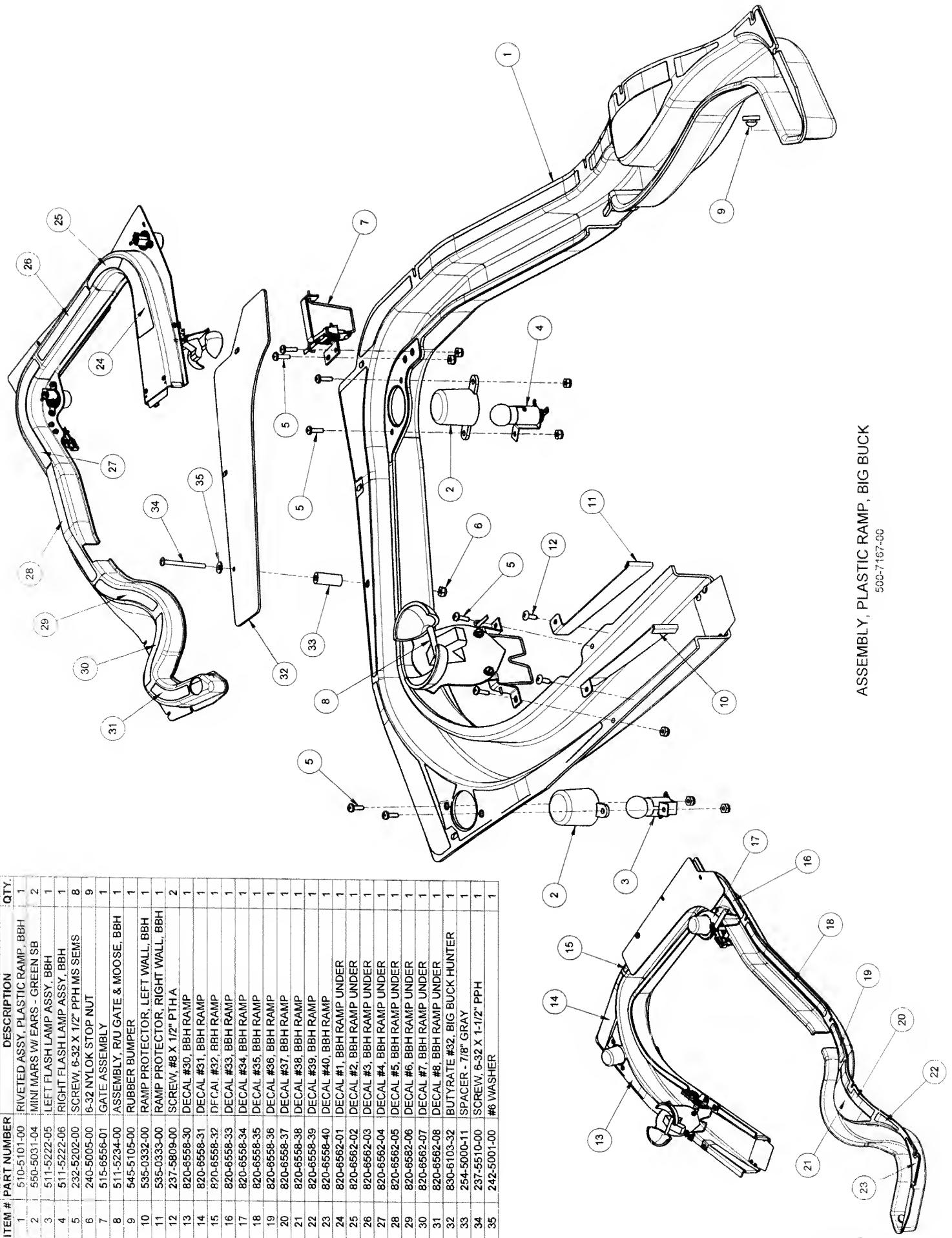


For Securing Hardware, see the Parts Table below, under the item desired.

Nr.	BUMPER BOTTOM PARTS	QTY.	SPI PART Nr.
8	Plunger	1/per	530-5348-00
9	Compression (Return) Spring	1/per	266-5047-00
10	Coil, 26-1200 [NO DIODE]	1/pe	090-5044-ND
	COIL DOES NOT REQUIRE A DIODE. SEE COIL NOTE ABOVE FOR DETAILS.		
11	Coil Sleeve	1/per	545-5031-00
12	Fiber Yoke	1/per	545-5609-00
13	Metal Yoke	1/per	535-7346-00
14	Metal Yoke Stop	1/per	535-7347-00
	Item 14 is secured by: #6-32 X 1/4" HWH Swage (Serr.) Zinc (Qty. 2/per) (237-5976-01)		
15	Coil Bracket Welded Assembly	1/per	515-5939-00
	Item 15 is secured below the playfield by: #6-32 X 1-3/16" Spiral Fin Shank (Qty. 3/per) (237-5957-00) and #6-32 Nylon Stop Nut (Qty. 3/per) (240-5005-00)		
	(ASM. REF 515-6459-04-ND (Qty. 3), Items 8-15)		

Assemblies & Ramps

Nr.	BUMPER SWITCH PARTS	QTY.	SPI PART Nr.
16	Switch Bracket	1/per	535-7342-00
	Item 16 is secured by: #8 X 1 1/2" HWH AB (Zinc) (Qty. 2/per) (234-5101-00)		
17	Bumper Stack (Blade) Switch Assy.	1/per	180-5015-04
	Included with Item 17: Spoon Switch Actuator (545-5610-02). Switch has a Diode (1N4004) (112-5003-00). Can be replaced with (1N4001) (112-5001-00).		
18	Switch Body Protect Plate	1/per	535-7344-00
	Items 17 & 18 are secured by: #6-32 X 3/4" HWH Swage (Serr) Zc (Qty. 2) (237-5976-05)		
	Can substitute Item 17 with 180-5015-05 (ASM. REF 515-6459-09/R (Qty. 3), Items 16-18)		
	ASSOCIATED PARTS ARE NOT INCLUDED WITH THE ABOVE ASSEMBLIES.		
Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
	AP-A Kit: Plastics (includes -10, -11 & -12)	1	803-5000-A9
	Note: Individual Plastics (803-6101-XX) are not available individually, ordering of kit is required.		
	Item AP-A is secured Item 3 by: #5 X 7/8" PRH AB (Zinc) (Qty. 2/per) (237-5826-00)		

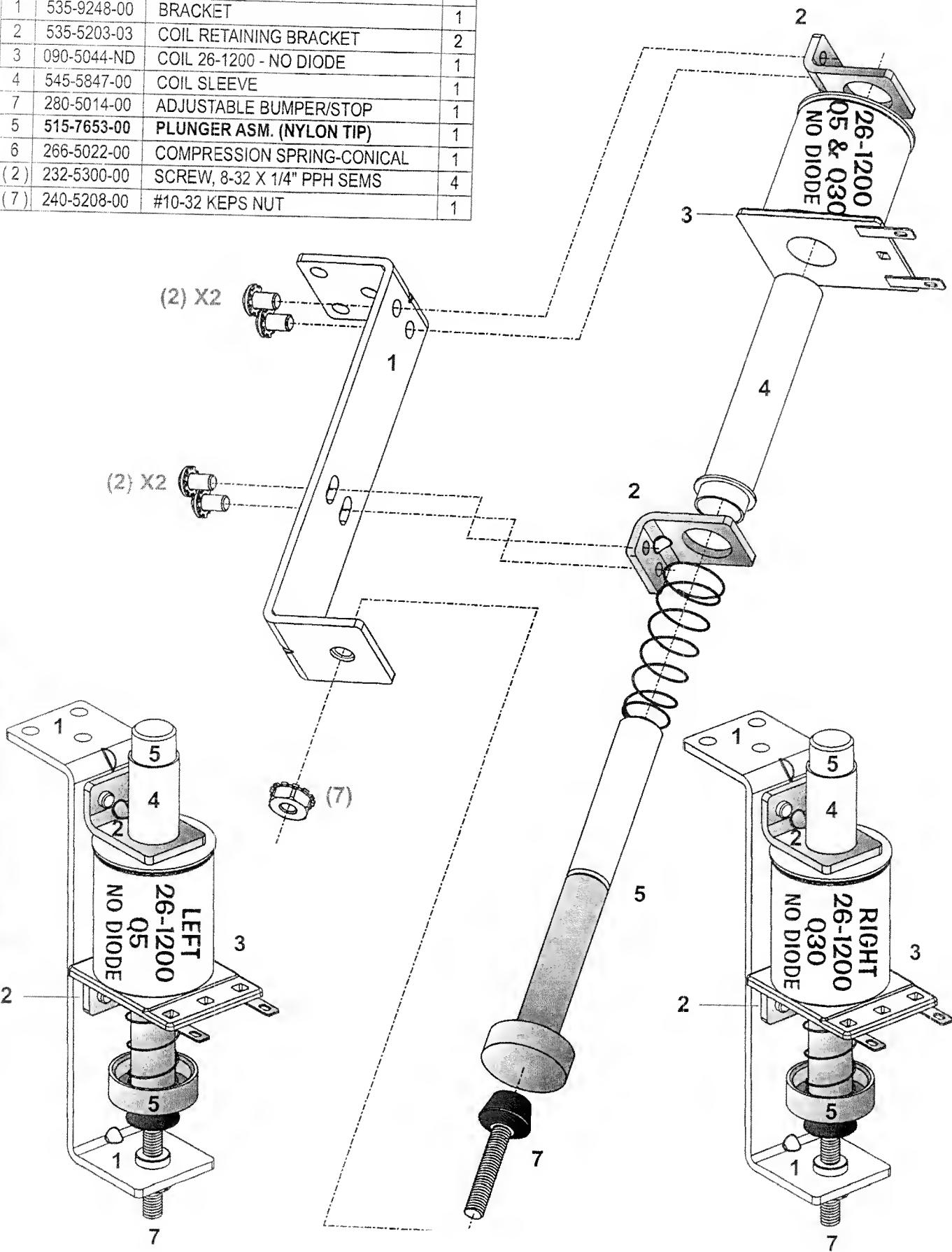


ASSEMBLY, PLASTIC RAMP, BIG BUCK

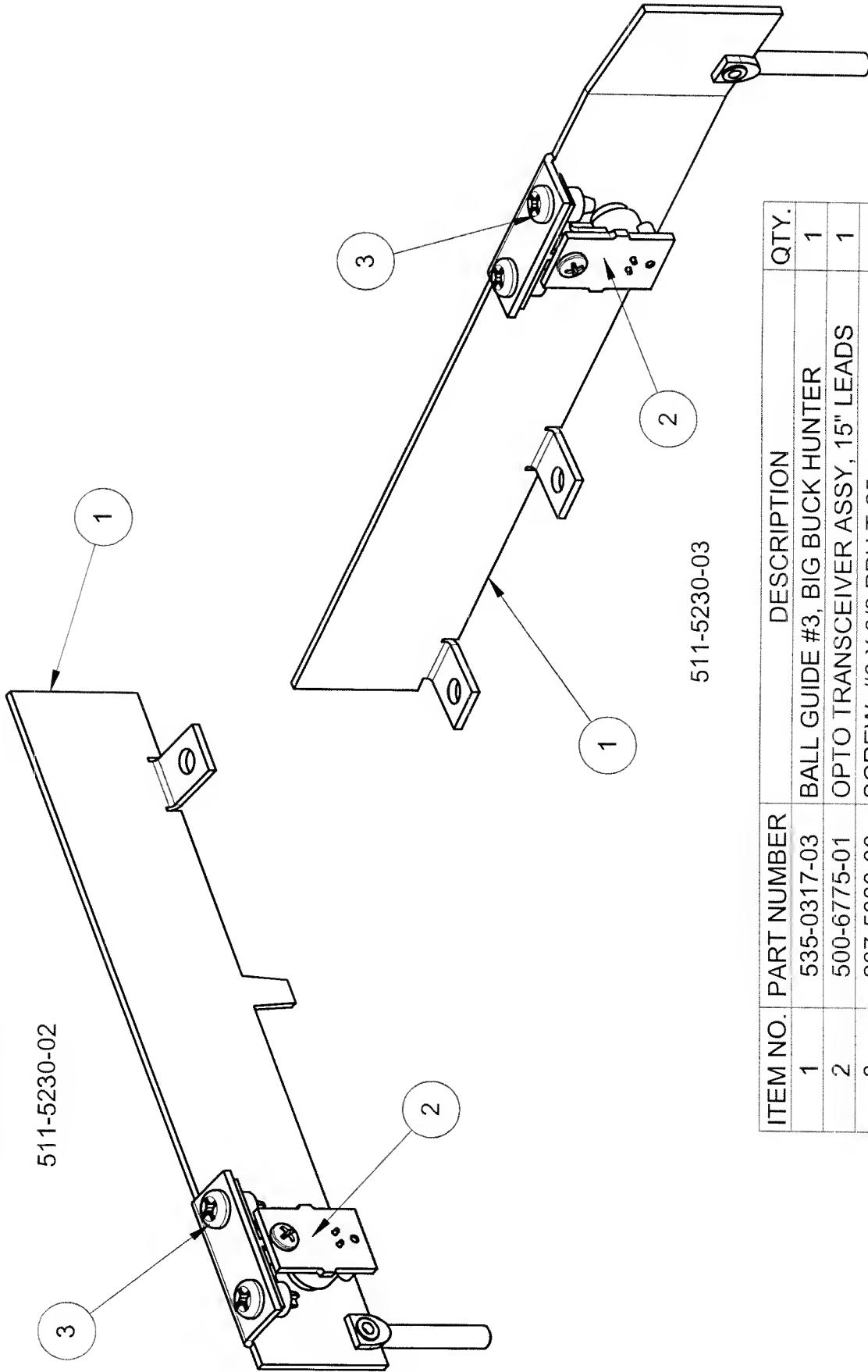
500-7167-00

Up/Down Post (Ball Deflector) Assemblies, 500-7081-00 (Qty. 2) (Items 1-7)

NO.	PART NUMBER	DESCRIPTION	QTY
1	535-9248-00	BRACKET	1
2	535-5203-03	COIL RETAINING BRACKET	2
3	090-5044-ND	COIL 26-1200 - NO DIODE	1
4	545-5847-00	COIL SLEEVE	1
7	280-5014-00	ADJUSTABLE BUMPER/STOP	1
5	515-7653-00	PLUNGER ASM. (NYLON TIP)	1
6	266-5022-00	COMPRESSION SPRING-CONICAL	1
(2)	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	4
(7)	240-5208-00	#10-32 KEPS NUT	1



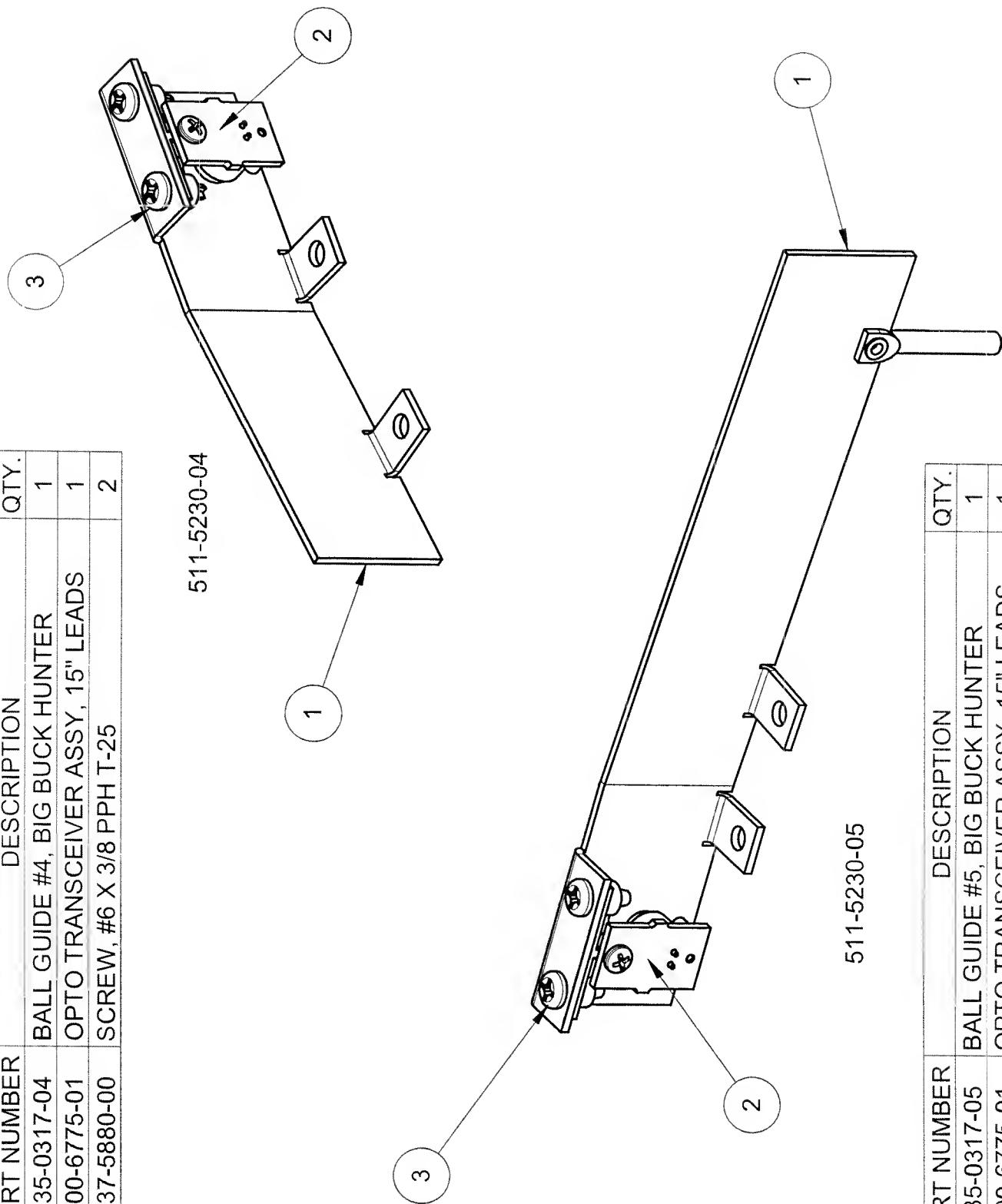
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-02	BALL GUIDE #2, BIG BUCK HUNTER	1
2	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2



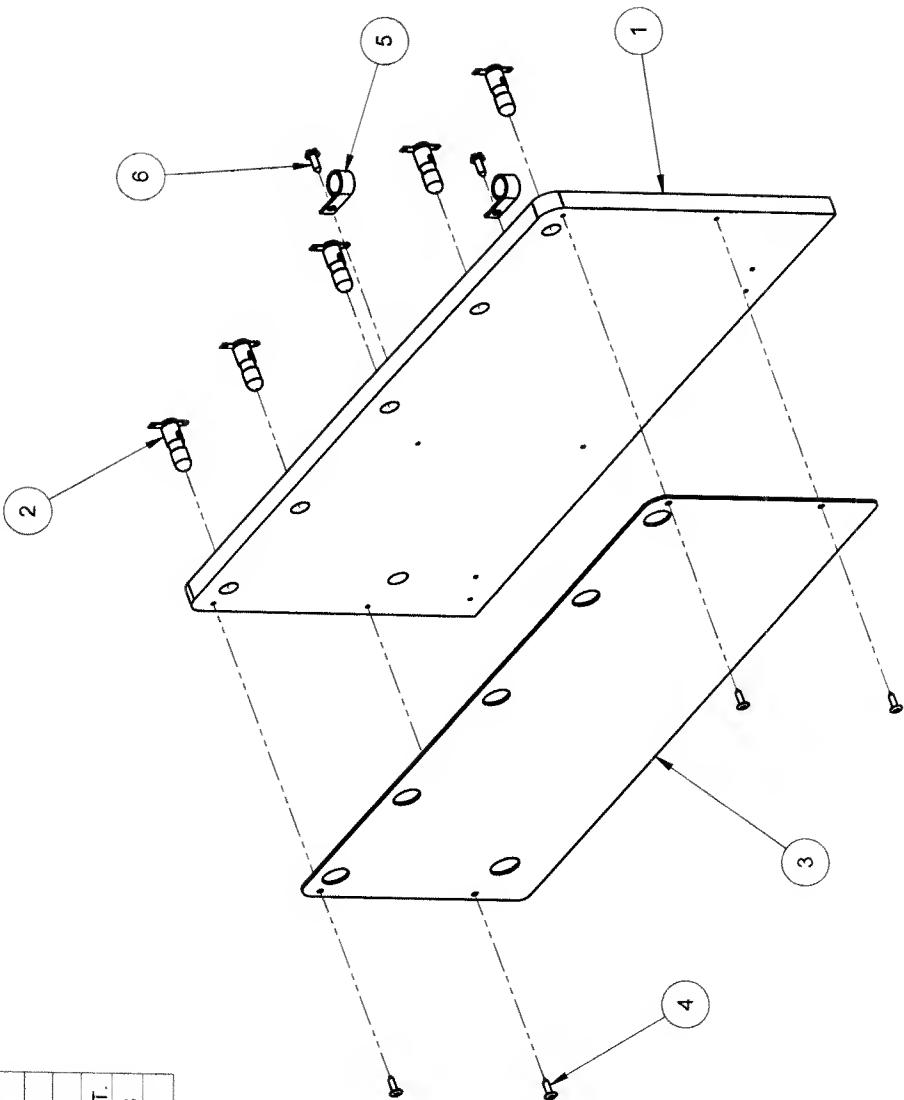
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-03	BALL GUIDE #3, BIG BUCK HUNTER	1
2	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2

523

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-04	BALL GUIDE #4, BIG BUCK HUNTER	1
2	500-6775-01	OPTO RECEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2



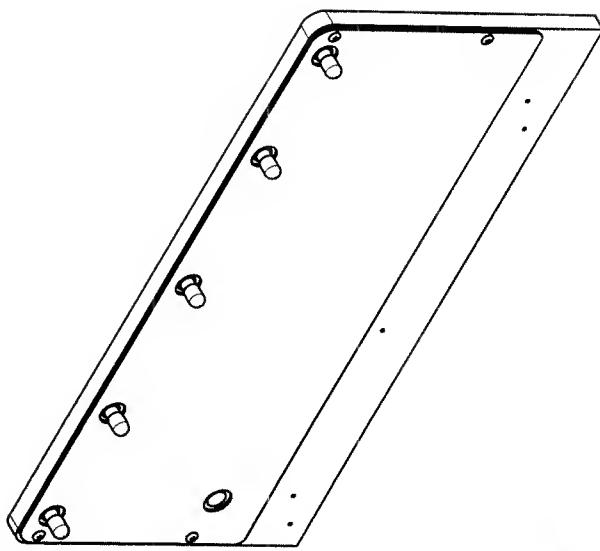
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-05	BALL GUIDE #5, BIG BUCK HUNTER	1
2	500-6775-01	OPTO RECEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2



ITEM #	PART NUMBER	DESCRIPTION	QTY.
1	525-5690-00	BACK PANEL, BIG BUCK HUNTER	1
2	519-5000-00-HF	SOCKET & BULB ASSY, CLEAR	5
3	830-6101-10	BUTYRATE #10, BACK PANEL, BBH	1
4	237-5609-00	SCREW, #6 X 1/2" PTH A	4
5	040-5000-06	1/2" CABLE CLAMP	2
6	234-5101-00	SCREW, #8 X 1/2" SLTHWH AB ZINC	2
97*	600-5003-00	BRAIDED WIRE - 20GA.	3 FT
98*	631-5000-00	STAPLE - 5/16	18
99*	036-5546-04-B2	BACK PANEL CABLE ASSEMBLY	1

* ITEM NOT SHOWN

BACK PANEL ASSEMBLY, BBH
500-7164-00



D25

Optional Kits available through your Distributor:

Pinball Location Maintenance Standard Kit (for Big Buck Pinball) 502-6002-B2

Standard Kit includes : 8 oz. Novus Wax #2 Fine (Red) (675-0003-01), Cloth, Rubber Rings (used above playfield), Bulbs (Bulb quantities vary and is limited to 25 per type), Fuses (1/per type) and 4 Pinballs. **Note:** Quantities, sizes and contents subject to change without notice.

Pinball Location Maintenance Deluxe Kit (for Big Buck Pinball) 502-6003-B2

Deluxe Kit includes : Pinball Location Maintenance Standard Kit as described above plus a quantity of Flipper Rebuild Kits. **Note:** Quantity varies which equals the same quantity of flippers used in this game.

▲ THIS GAME KIT INCLUDES (2) FLIPPER REBUILD KITS ▲

Plastics*Kit (for Big Buck Pinball) 803-5000-B2

Plastics Kit includes: Plastic Sets (830-6103XX)

Decals*Kit (for Big Buck Pinball) 802-5000-B2

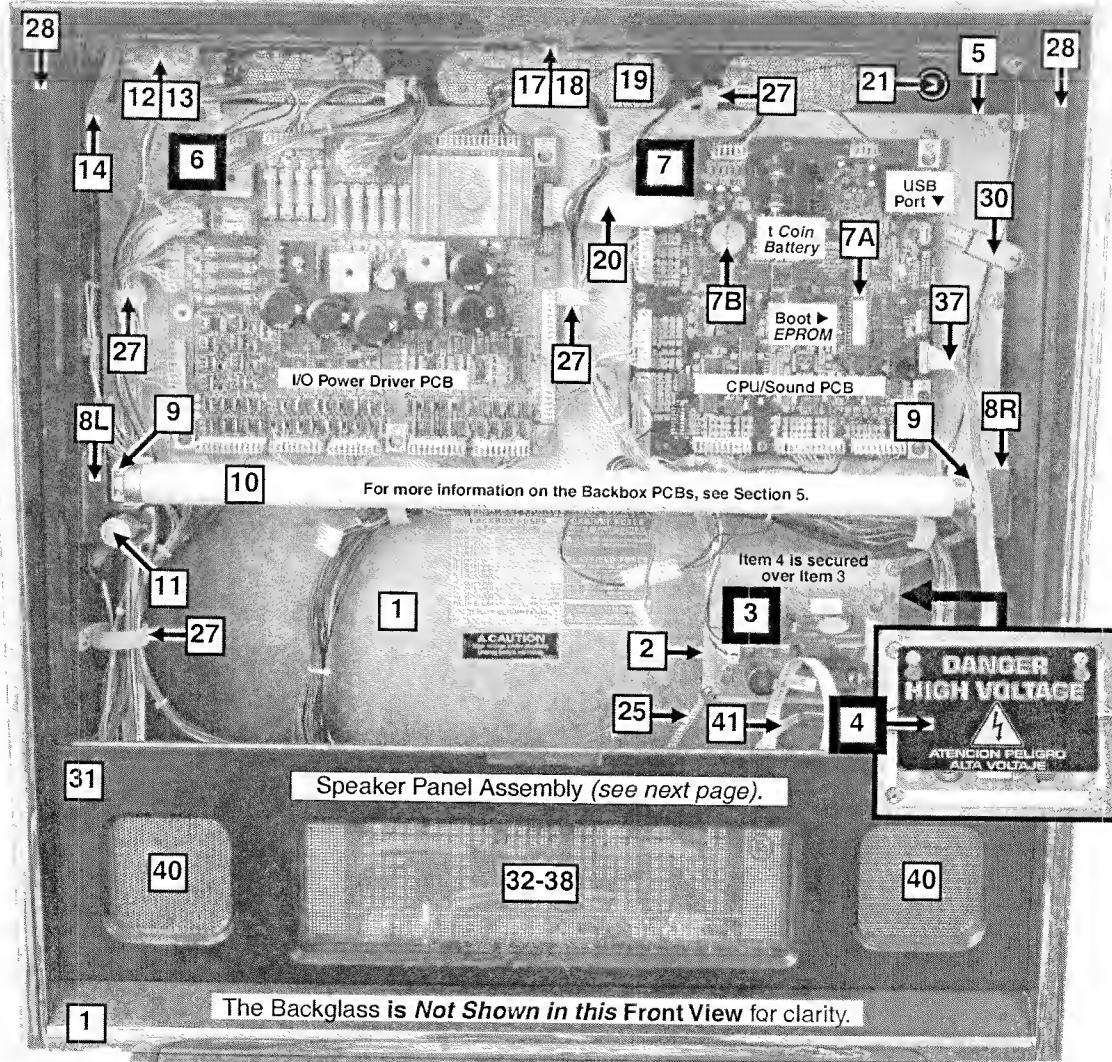
Decals Kit includes: Decal Set (820-6558-XX)

Mylar*Kit (for Big Buck Pinball) 802-5001-B2

Mylar Kit includes: Full Mylar (820-5999-B2)

***Attention:** No individual Plastic or Decal can be ordered separately, unless noted otherwise. Plastics & Decals are subject to change without notice during and / or after production. Key Fobs subject to availability and may or may not be included in the plastic set. All designs, shapes & pieces used subject to change without notice. Kit contents subject to change. Service Bulletin(s) will announce any critical changes, if warranted. The last 2-digits shown on plastics or decals are for reference only.

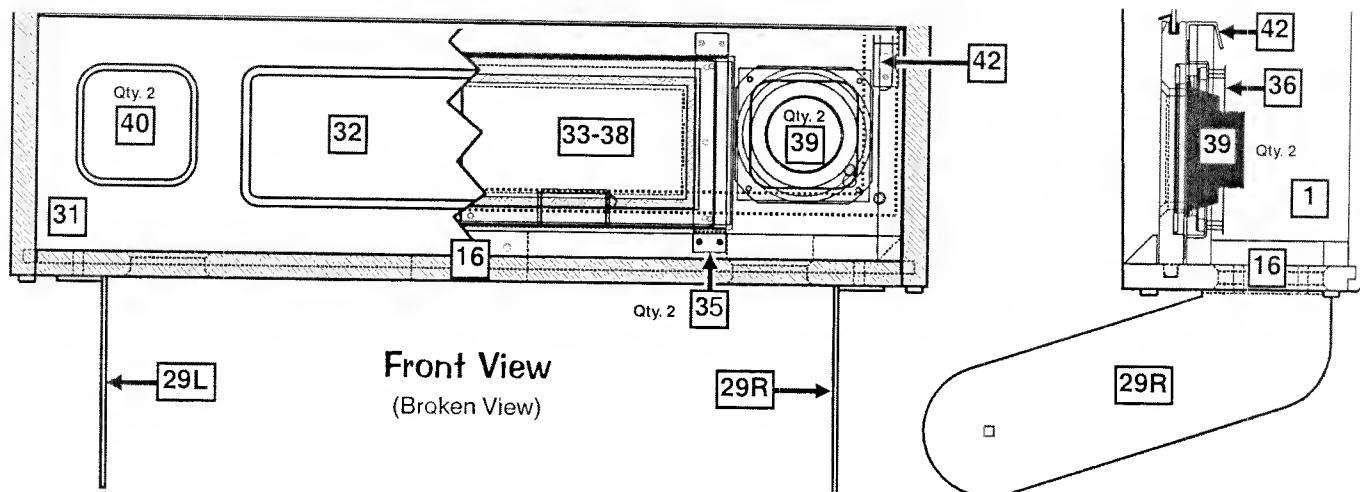
TOURNAMENT PIN



HOMEGROWN SWEET

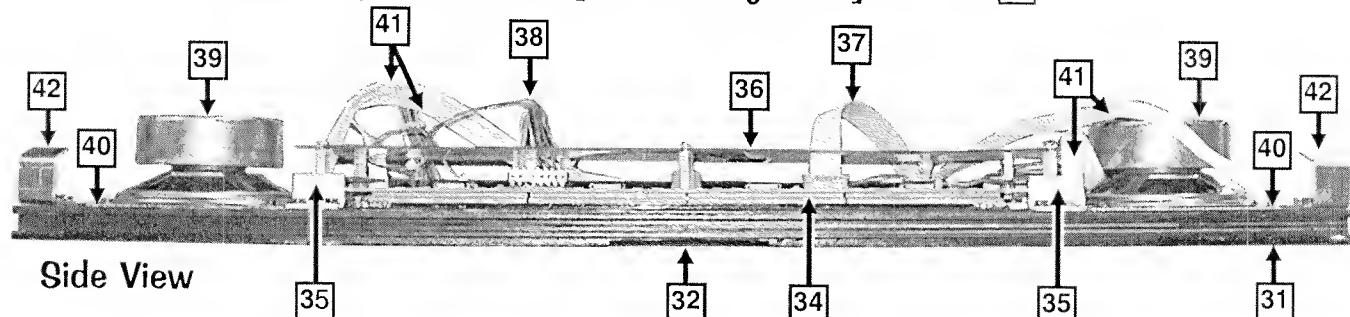
Item 22 is mounted to item 23 with #8-32 x 3/8 PPA screw (Qty 2/per) (232-5303-01) & #8-32 Nylock Nut (Qty 2/per) (240-5102-00). Item 23 is secured to item 1 by: #8 X 5/8" PPH (Qty. 2/per) (232-5101-01)

Backbox [S.A.M. System] - Parts



Front View
(Broken View)

Speaker Panel [S.A.M. System] - Parts



Side View

Nr.	BACKBOX PARTS	QTY.	SPI PART Nr.	Nr.	SPEAKER PANEL PARTS	QTY.	SPI PART Nr.
◀ PARTS TABLE & VIEWS CONTINUED FROM THE PREVIOUS PAGE.							
25	Braided Wire (1-1/2 Feet)	1	600-5001-00	31	Speaker Panel (Black Wood)	1	525-5515-00
	Item 25 is secured by: Staple 5/16" (Qty. 23) (631-5000-00)			32	Plastic Shield (Display Front Cover)	1	545-5884-00
26*	Zip Cable Tie (Screw Down Style)	4	040-5005-00	Item 33 is secured to inside Item 31 by: #6 X 3/8" SHWH AB (Zinc) (Qty. 8) (234-5000-00)			
	Item 26 is secured @ inside bot. by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00)			33*	Foam 3/16" Thick X 1/4" Wide X 12"	6	626-5026-00
27	Clamps [Multiple Sizes]	32	040-5000-XX	Above Item 33 is self-adhesive. Located between Items 32-34. Sold in 12" Lengths only.			
	Item 27 secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) For the following sizes, replace -XX with: .1/4" Double = -23 (Qty. 5); 1/2" Single = -06 (Qty. 3); 3/4" Single = -08 (Qty. 4); 1" Single = -09 (Qty. 1); 1-1/4" Double = -30 (Qty. 1)			34	128 X 32 Dot Matrix Display PCB	1	520-5052-00
28	Foam 3/16" Thick X 1/4" Wide X 12"	6	626-5026-00	// EURO ONLY RoHS // 128 X 32 DM CES PCB	520-5052-05		
	Above Item 28 is self-adhesive. 17.5" strip on each side. Sold in 12" Lengths only.			// EURO ONLY RoHS // Dot Matrix Bezel	545-6281-00		
29L	Pivot Hinge (Left Style)	1	535-7999-00	Item 34 is secured to Item 35 by (at corners): 3/16" X 3/8" Spacer Gray (Qty. 4) (254-5000-18) and #6-32 X 1/2" SHWH Swage (Serr) Zinc (Qty. 4) (237-5976-03)			
29R	Pivot Hinge (Right Style)	1	535-7999-01	35	Dot Matrix Display Mounting Bracket	2	535-3868-01
	Items 29L-29R are secured to Backbox by: 1/4"-20 X 1-1/4" C.B. Sq. Neck (Qty. 4) (231-5003-00) and 1/4"-20 Flange Nut (Qty. 4) (240-5300-00)			Item 35 is secured to Item 31 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 4/per) (234-5101-00)			
	Items 29L-29R are secured to Cabinet by: Spacer Hex Nut 1/2" Q.D. - 1/4-20 X 1/2" TD (Black) (Qty. 1/per) (254-5042-00), Nylon Spacer (Black) (Qty. 1/per) (242-5084-00), 1/4-20 X 1/2" Carriage Bolt Square Neck (Black) (Qty. 1/per) (231-5072-00) and Washer 1" Q.D. X 1/2" I.D. X 1/16" (Black) (Qty. 1/per side, only if required) (242-5087-00)			36	Plastic Shield (Display Back Cover)	1	830-6040-00
30*	Memory Stick USB 1.1+ [Generic] 64MB	1	970-0064-00	Item 36 is secured to Item 34 by: 1/2" X 1/4" Hex Spacer #6-32 Tap (Qty. 4) (254-5008-03), 3/4" X 1/4" Hex Spacer #6-32 Tap (Qty. 2) (254-5008-04), #6-32 X 1/4" PPH MS (Sems) Zinc (Qty. 2) (232-5200-00) and #6-32 X 3/8" PPH (Qty. 6) (232-5201-00)			
	Memory Stick USB 1.1+ [Generic] 128MB	1	970-0128-00	37	Ribbon Cable, 14-Pin (33")	1	036-5260-33
	Item 30 was not included with your game. Read the inside cover or go on-line for more info.			// EURO ONLY RoHS // LED Ribbon Cable Filter PCB	520-5259-00		
	To order with the latest game code copied onto it, add -A3 to the Part Nr. (970-0128-00-A3). File(s) can be downloaded from our website (Files are 25MB or larger, DSL or Fast Modem recommended). Not all manufacturers of Memory Sticks are compatible with our system. Test it out, if it doesn't work properly, return your purchase and order the memory stick through your local pinball distributor (Stern Pinball Memory Sticks guaranteed compatible).			Item 37 (14-Pin) connects the 128 X 32 Dot Matrix Display PCB to the CPU/Sound PCB.			
	(ASM. REF. 505-6002-A3-A3, Items 1-42 Only, [29-30 not included in assembly])			38	Display Cable (Wiring Harness)	1	036-5454-01
				// EURO ONLY RoHS // LED Display Adapter Harness	036-5520-00		
39	Speaker (Shld.) 4" 8Ω #MG ELE 4080SH	2	031-5004-02	39	Speaker (Shld.) 4" 8Ω #MG ELE 4080SH	2	031-5004-02
40	Speaker Grill (Black w/Artwork)	2	535-8081-B2	40	Speaker Grill (Black w/Artwork)	2	535-8081-B2
	Items 39-40 are secured by: #8 X 1/2" SHWH AB (Black) (Qty. 4/per) (234-5101-01)			41	Ground Strap (25") [2 per : Items 35 & 39]	4	600-5006-25
				42	Speaker Panel Hook Bracket	2	535-7009-02
					Item 42 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2/per) (234-5101-00)		
					(ASM. REF. 515-6888-05, Items 31-42 Only [includes wiring])		

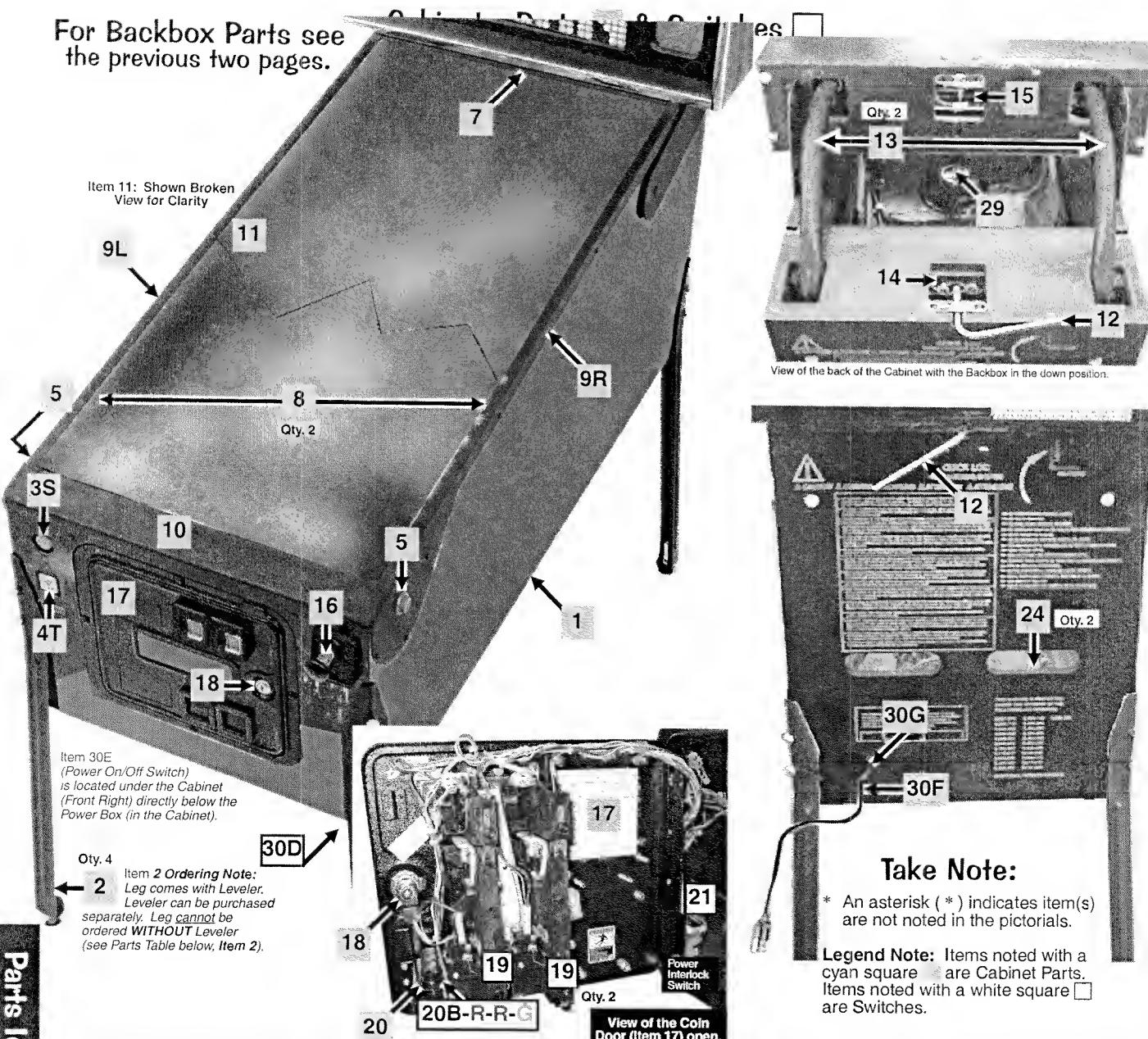
Take Note:

* An asterisk (*) indicates item(s) are not noted in the pictorials.

Nr.	BACKGLASS PARTS	QTY.	SPI PART Nr.	Nr.	BACKGLASS PARTS	QTY.	SPI PART Nr.
i*	Glass (Tempered) 25.906" X 19.187" X .125"	1	660-5038-02	iv*	Bottom Plastic Lift Channel - 26"	1	545-6313-01
ii*	Big Buck™ Film Art (#B2)	1	830-52B2-00	v*	Plastic Edging (Left/Right) - 18-1/8"	2	545-5018-14
iii*	Top Plastic Channel - 26"	1	545-5018-15	Items i-v are secured to Item i by: 3M Tape (Double-Sided), 12" (Qty. 1) (626-5080-00)			

(ASM. REF. 515-5450-00-A9 , Items i-v)

For Backbox Parts see
the previous two pages.



Take Note:

* An asterisk (*) indicates item(s) are not noted in the pictorials.

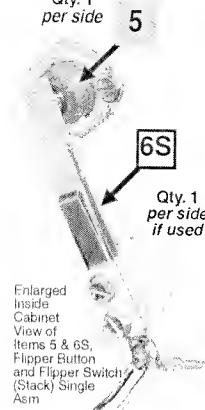
Legend Note: Items noted with a cyan square are Cabinet Parts. Items noted with a white square are Switches.

Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
1	Screened Cabinet BBH TM (No Parts)		525-5395-15P-B2
2	Black Leg with Leveler Asm.	4	500-5921-50
	Item 2 is secured by: Leg Bolt Back Plate (535-5703-00) and Leg Bolt 3/8" X 16 X 2-1/2" Hex 5/8" Hd. (2/per) (231-5001-01) Leg Leveler ONLY (3/8"-16 X 3") (500-5017-00).		
3S	Start Button (Green Round) with Sw. + Lamp	1	500-6388-44-TL
4T	Tournament Button (Yel. Sq.), w/Sw. + Lamp	1	500-6587-06-TL
	Item 3S & 4T includes the Switch & Lamp (No Wiring; desolder old wiring where required). Switch or Bulb replacement: >> not snap-in << Assembly Parts Included : Microswitch (180-5174-00); #555 Wedge Base Clear Bulb (165-5002-00); If 4T is not desired, use optional Button Plug Black (500-6566-00). Requires 3-Lug Terminal Strip (055-5204-03) and Diodes, 1N4004 (Qty. 2) (112-5003-00) inside cabinet under button(s) for Lamp Operation (Diode for Switch, located on Switch.)		
5	Flipper Button (Red) Assembly (No Switch)	2	500-5026-32
	Item 5 is secured by: Pal Nut for Flipper Button (Metal) (Qty. 2/per) (240-5003-01) Pal Nut Inside cabinet secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) and Washer (Zinc), .187" ID X .875" QD X .048" Thick (Qty. 1/per) (242-5059-00)		
6S	Flipper Switch Single Assembly	2	500-6889-01
	Assembly Parts Included : Flipper Switch Stack Single (Paliney Contact) (180-5160-01) and Capacitor - Ceramic .05 Mfd 25 volt (130-5001-00)		
6D	Flipper Switch Double Assembly	0	500-6890-01
	Assembly Parts Included : Flipper Switch Stack Double (Paliney Contact) (180-5164-01) and Capacitor - Ceramic .05 Mfd 25 volt (130-5001-00)		
	Item 6S/6D are secured to Cab. by: #6 X 1-1/4 SHWH AB (Zinc) (Qty. 2/per) (237-5959-00)		
	Item 6S/6D are secured to Cab. by: #6 X 1-1/4 SHWH AB (Zinc) (Qty. 2/per) (237-5959-00)		

Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
7	Rear Glass Channel 20-3/8" Length	1	545-5038-00
8	Plastic Channel 42-5/8" Lg. (Left/Rt.)	2	545-5017-00
9L	Side Armor (Left) W/O Button Guard	1	535-7297-02
	Side Armor (Right) W/O Button Guard	1	535-7297-02
	Items 9L & 9R are secured @ front & side by: Pem Stud 1/4 X 1" Flange Head Black (Qty. 1/per) (237-6116-01), 1/4-20 Flange Nut (Qty. 1/per) (240-5300-00) and #8 X 1/2" T20 Tamper Proof Black (Qty. 5/per) (237-6173-05); @ rear (backbox) by: #10-24 X 1" Sq. Neck Carrg. Bolt Black (Qty. 1/per) (231-5021-00) and #10-24 Hex Nut (Qty. 1/per) (240-5202-00)		
10	Front Molding (Black) < NO BUTTON HOLE >	1	515-7495-00
	Item 10 includes: Self-Adhesive Foam Rubber 3/8" X 3/16" X 20-3/8" (3) (626-5001-00)		
	Items 10 works with Item 22 (next page) ONLY.		
11	Playfield Glass (Tempered) 21" X 43" X 3/16"	1	660-5001-00
12	Hex Key Allen Wrench 5/16"	1	777-0001-00
13	Corrugated Tubing Black 1" X 2.6" Lg.	1	605-5008-03
	Above Item 13 covers the Cable Wiring Harnesses going into the Backbox from the Cabinet.		
14	Roto Lock Male (R2-0055-02)	1	355-5006-01
	Item 14 is secured by: #10-24 X 1-3/4" Carriage Bolt Square Neck (Qty. 2) (231-5022-00), #10-24 Nylon Stop Nut (Qty. 2) (240-5206-00) and #10 Washer, 7/32" ID X 1/2" OD X 1/16" Thick (Qty. 2) (242-5003-00)		
15	Roto Lock Female (on Backbox)	1	355-5006-02
16	Ball Shooter (Plunger) Assembly	1	500-6146-00-04

PARTS TABLE & VIEWS CONTINUEO ON THE NEXT PAGE. ►

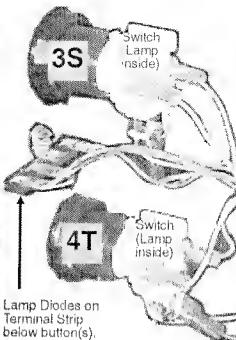
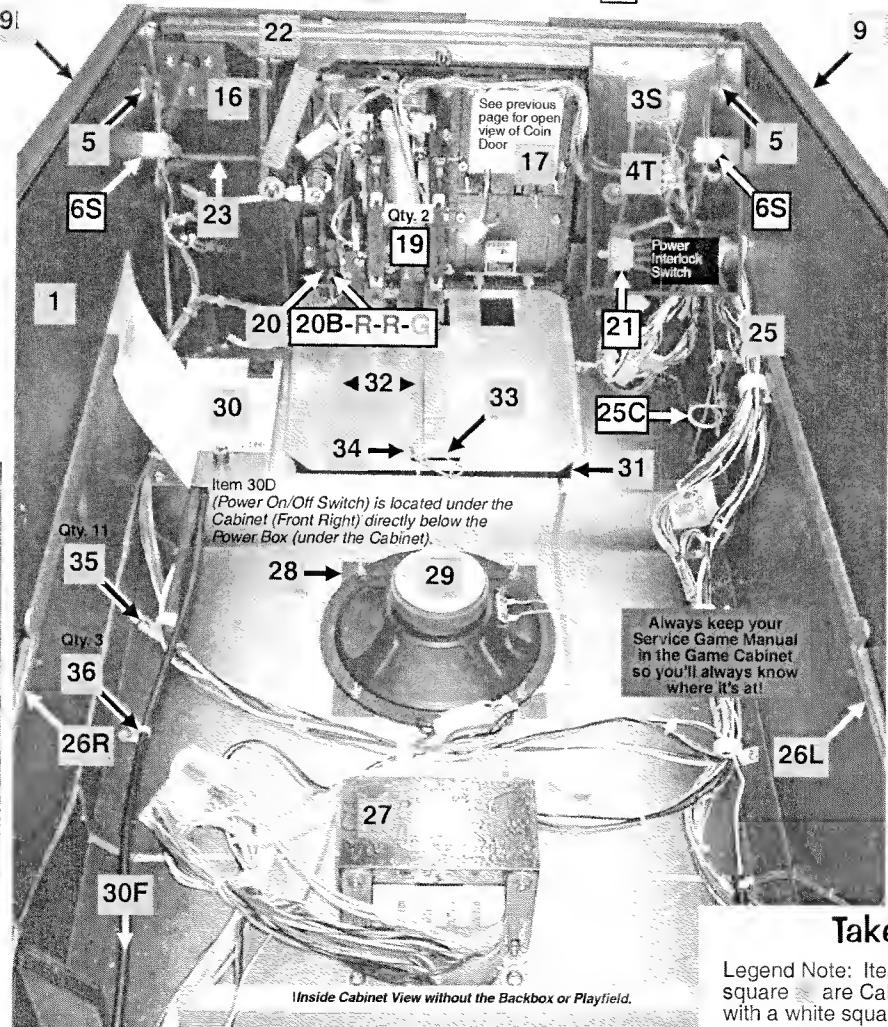
Cabinet - Parts & Switches Continued



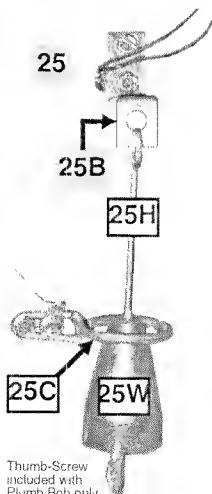
Enlarged Inside Cabinet View of Items 5 & 6S, Flipper Button and Flipper Switch (Stack) Single Asm



Enlarged Inside Cabinet View of Items 30, Power Box (30A), Service Outlet (30E), Fuse (30i) and Fuse Holder (30J).



Enlarged Inside Cabinet View of Items 3S, 4T and 25 (25B, 25C, 25H & 25W), Plumb Bob Tilt Switch.



Take Note:

Legend Note: Items noted with a cyan square are Cabinet Parts. Items noted with a white square are Switches.

Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.	Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
◀ PARTS TABLE & VIEWS CONTINUED FROM THE PREVIOUS PAGE.							
17	Coin Door 2-Ch \$V Up-Stk. 4-Button Bracket	1	501-5018-172	27	Transformer 5.7VAC (with Ballast Winding)	1	010-5012-01
Item 17 is secured by: 1/4"-20 X 1-1/4" Carriage Bolt Square Neck (Qty. 4) (231-5003-00) 1/4"-20 Flange Nut (Qty. 4) (240-5300-00) and Fend Washer 1/4" I.D. X 1" O.D. (Qty. 3) (242-5009-00) Note: For Coin Door other than USA call Technical Support for SPI Part Nr.			Item 27 is secured by: 1/4"-20 X 5/8" PPH MS (Zinc) (Qty. 4) (237-5854-00) and 1/4" Split Lock Washer (Qty. 4) (244-5000-00)				
18	Lock 5/8" Barrel, 3/4, Flt. Cam	1	355-5055-00	28	Woofer (Speaker) Grill 7" X 7"	1	545-5072-03
Coin Door Switch (USA) (Happ)		2	180-5024-01	29	Woofer 8" o Round 8010 4Ω	1	031-5007-01
19	ALT. SW.: 19C: Coin Door Switch (USA) (Coin Control) (180-5024-00) ALT. SW.: 19J: Coin Door Switch (¥ Japan) (180-5091-00)			Items 28 & 29 are secured by: #6-32 X 1-1/4" Fin Shank Screw (Qty. 4) (237-5883-00) and #6-32 Keps Nut (Qty. 4) (240-5008-00)			
4-Button Bracket (for Service Menu Buttons)		1	535-6860-04	Power Input Box Asm. + Univ. Cable	1	515-5360-08	
20	SWITCH: 20B: Push-Button Service Switch (Black) (180-5192-00) SWITCH: 20R: Push-Button Service Switch (Red) (Qty. 2) (180-5192-02) SWITCH: 20G: Push-Button Service Switch () (180-5192-04)			30A: Power Box (No Parts) Mounting Frame (535-5932-00) 30B: Line Filter (150-5000-00) 30C*: Varistor* TNR159211KM (Domestic) (150-5001-00) or Varistor TRM15G431KM (Euro) (150-5002-00)			
Ordering Note: Securing hardware for switches included. Decal in kit sold separately.				SWITCH: 30D: On/Off Rocker Switch + Bracket Assembly (515-7085-00) 30D incl.: Switch, APEM R2101C5NBB (180-5001-03) + Bracket (535-8318-00)			
21	Power Interlock-Memory Protect Switch Asm.	1	500-5808-05	30E: Service Outlet (3-Prong / US) (180-5008-01) / International N/A 30F: Line Cord 10 RJQ 3" + Ring Terminal Asm. (515-6566-00) 30G: Recessed (Black) Cup (rear of Cabinet) (545-5122-00) 30H*: Snap Bushing 9/16" (White) (280-5001-01)			
Assembly Parts Included: Mounting Bracket (535-9794-00), Power Interlock (Playfield) Switch (180-5136-00) and secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00)			30I: Fuse 8 Amp 250V Slo-Blo (Domestic) (200-5000-05) or Fuse 8 Amp 250V Slo-Blo (International) (Qty. 2) (200-5003-00) 30J: Fuse Holder (205-5001-00)				
22	Front Molding Lockdown Asm.	1	500-6881-00	Universal Cable & Jumper Caps (all voltage variations): See the Yellow Pages, Page y 10.			
Item 22 is secured by: #10-24 X 1-1/4" Carr. Bolt (Qty. 2) (231-5012-00) and #10-24 Keps Nut (Qty. 2) (240-5207-00)			31	Cash Box Plastic Bottom	1	545-5090-00	
23	Lockdown Spring (connected to handle)	1	265-5008-00	32	Cash Box Cover (Validator)	1	535-5013-03
Item 23 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1) (234-5101-00) and #10 Washer, 7/32" ID X 1/2" QD X 1/16" Thick (Qty. 1) (242-5003-00)			33	Cash Box Lock Bracket (U-Wire)	1	535-7562-00	
24	Grills 2-1/2" X 18" (on Back & Bottom)	3	545-5072-02	Item 33 is secured by: #8 X 5/8" HWH AB (Green) (Qty. 2) (234-5102-04)			
Plumb Bob Tilt Switch Individ. Parts Only			34	Large Hair-Pin Clip	1	535-7772-00	
25	SWITCH: 25B: Bracket for Hanger Wire (535-5221-00) 25C: Contact Wire Form (535-7563-01) 25H: Hanger Wire (535-5319-02) 25W: Plumb Bob Weight (535-5029-00) (includes Thumb-Screw)		35	Clamps [Multiple Sizes]	36	040-5000-XX	
Item 25B is secured to Cabinet by: #6 X 5/8" SHWH AB (Zinc) (Qty. 4) (234-5002-00)			Item 35 is secured to Item 1 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) For following sizes, replace -XX with: 3/4" Single = -08 (Qty. 9); 1-1/2" Single = -10 (Qty. 3)				
26L	Slide & Pivot Support Bracket (Left)	1	535-5989-00	36	Zip Cable Tie (Screw Down Style)	4	040-5005-00
26R	Slide & Pivot Support Bracket (Right)	1	535-5990-00	Item 36 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00)			
Items 26L & 26R are secured by: #10-24 X 1-1/4" Carriage Bolt Square Neck Black (3/per) (231-5012-00) and #10-24 KEPS Nut (3/per) (240-5207-00)			37†	Meter +12VDC with Bracket Optional		opt. G-0053-013-102	

† Meters (Diode included) are optional and were not included in this Pinball Machine. Order without the bracket use G-0053-013-102A. More information or Qs? Call Technical Support.

Main Playfield Top - Miscellaneous Parts and Brackets

Nr.	THE PLAYFIELD	QTY.	SPI PART Nr.
Main	P/F Screened w/ Inserts & NO Parts	1	830-5100-B2
P/F	P/F Complete w/ Inserts & ALL Parts	1	505-6004-B2-B2

Nr.	MISC. PARTS (ABOVE)	QTY.	SPI PART Nr.
1	Arch (PLASTIC)	1	545-5995-02

Item 1 is secured to Item 9 below by: #10-32 X 5/16" PFH UC MS (Zinc) (Qty. 2) (237-6013-00). Usage Note: When replacing the Arch, order new replacement Nelson Protect Strips 7-5/8" (not included) (Qty. 2) (545-5212-04, use -02 for 8-9/16" size). For Decals, see Playfield Top - Plastics Kit, Decals & Mylar Kits.

2	Inst. Card [Eng./Spanish] NBA™	1	755-51B2-12-Y
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Note : Visit www.sternpinball.com for a PDF copy of the Game Instruction Card which will also have any translated Instruction Cards made for this game. Find Game Link or Archives.

Spanish 755-51A2-12-Y, German 755-51A2-03-Y, Italian 755-51A2-04-Y, French 755-51A2-05-Y

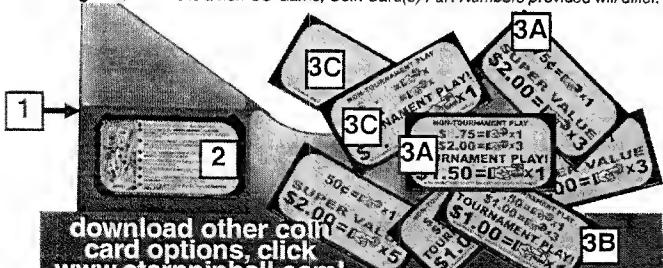
3A	Coin Card (2-Sided) USA 10 Default	1	755-5400-11-Y
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3B	Coin Card (2-Sided) USA 5	1	755-5400-08-Y
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3C	Coin Card (2-Sided) Blank for Custom	1	755-5400-04-Y
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For Coin Card views, see below or online : <http://www.sternpinball.com/coinagecards.shtml>

Ordering Note : If this is a non-US Game, Coin Card(s) Part Numbers provided will differ.



4	Mini Mars w/ears (Yellow)	2	550-5031-06
4A	Mini Mars w/ears (Green)	2	550-5031-04
4Y	Plastic Dome Hat (yellow)	4	550-5032-06

5	Light Reflector (Silver Plst.) REF540N	4	545-5409-01
6	Gate Bracket	1	535-0339-00
	GATE	1	535-5307-03
7	Bubble Level Assembly	1	500-6815-00
	Assembly Parts Included : Level, 8mm Empire #0224 (545-6001-01) or Level Mount (545-6068-00). Flange secured by: #6-32 X 1/4" PPH MS (no Sems) Zinc (237-5500-00) and #6-32 Keps Nut (240-5008-00). Item 7 is secured to the Wood Rail by: #6 X 1-3/4" PPH AB (Zinc) (Qty. 2) (232-5009-00)		
8	Pinball (Steel) 1-1/16" Ø	4	260-5000-00

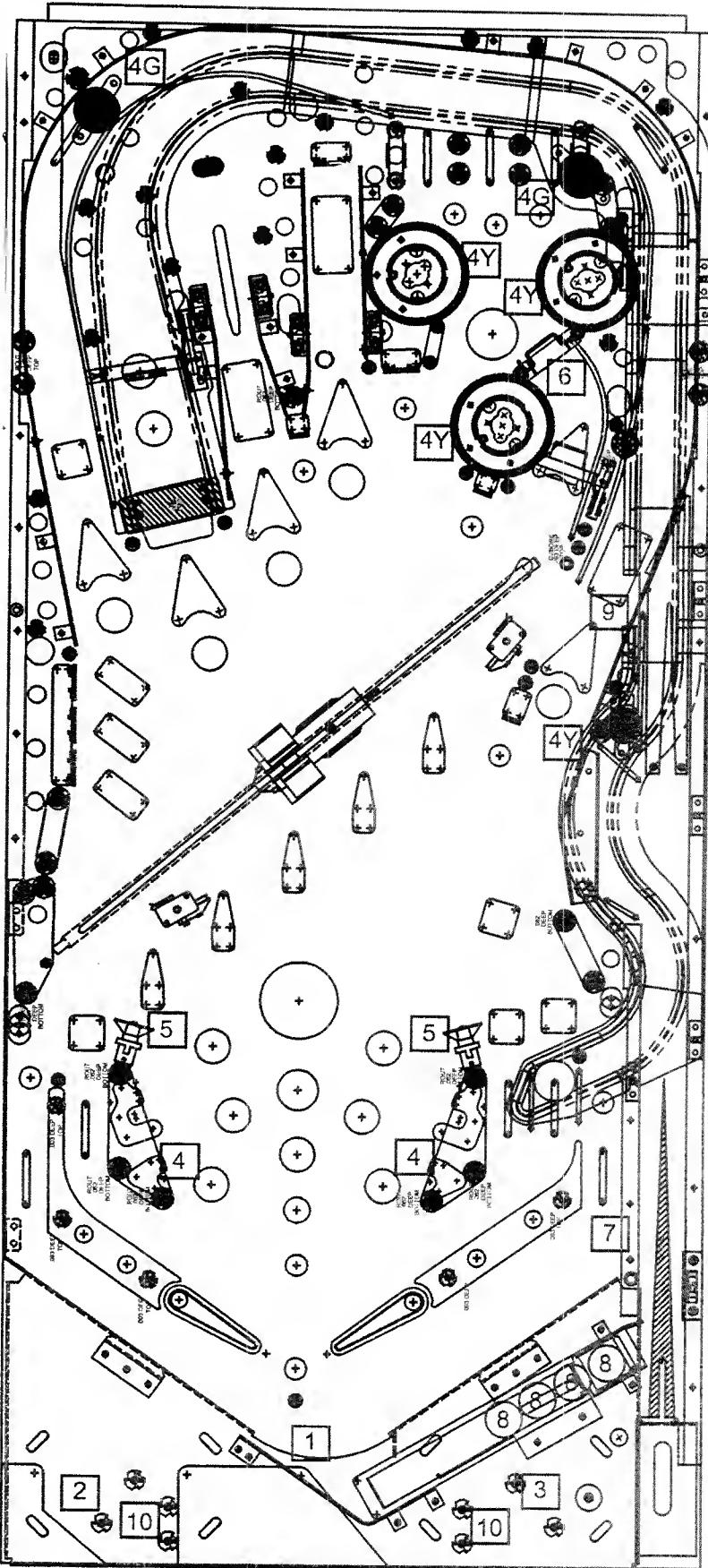
Nr.	MISC. BRACKETS (ABOVE)	QTY.	SPI PART Nr.
9	Shooter Ramp (Shooter Lane)	1	535-9881-01

10	Bracket, Playfield Hanger	2	535-8385-00
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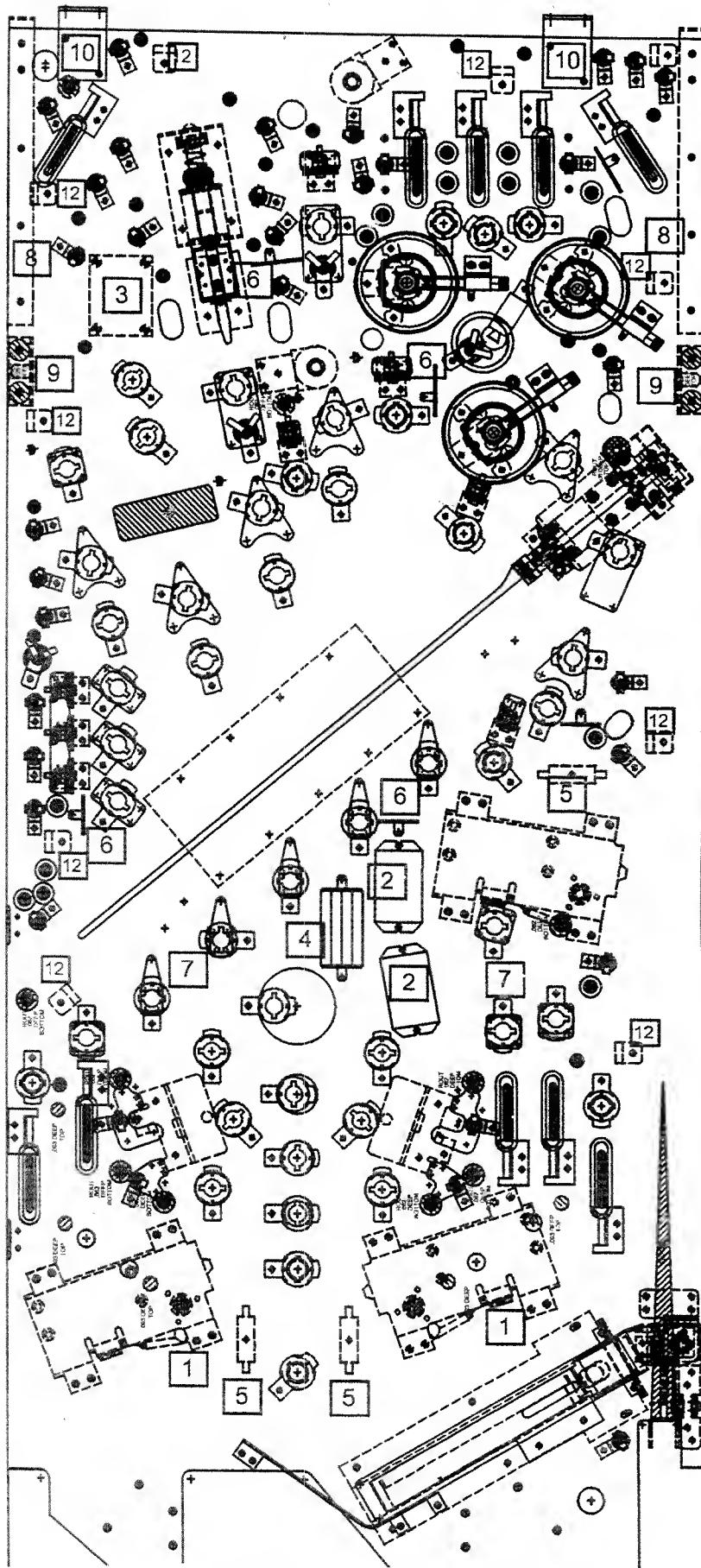
Item 10 is secured to the Playfield (P/F) by: #8-32 X 7/8" Unslotted HWH MS Zinc (Qty. 2/per) (237-5890-00) and #8-32 T-Nut (Qty. 2/per) (240-5101-00)

11			
12			

Nr.	MISC. PARTS	QTY.	SPI PART Nr.



Main Playfield Bottom - Miscellaneous Parts and Brackets



Nr.	THE PLAYFIELD	QTY.	SPI PART Nr.
Main	P/F Screened w/ Inserts & NO Parts	1	830-5100-B2
P/F	P/F Complete w/ Inserts & ALL Parts	1	505-6004-B2-B2

Nr.	MISC. PARTS (BELOW)	QTY.	SPI PART Nr.
1	Insulation Fiche Paper (under Lower Flippers)	2	545-5721-00
2	Relay + Conn. Asm.	2	190-5007-00

3 PCB, OPTO Transceiver Amplifier 1 520-5239-01
 Item 3 is secured by: #6 X 3/4" SHWH AB (Zinc) (Qty. 4) (234-5003-00)
 Application Note: Required for OPTO Transceiver Pairs (500-6775-01) listed on the next page (... Switches). See the Yellow Pages, PCBs, Pages y 42 - y 43

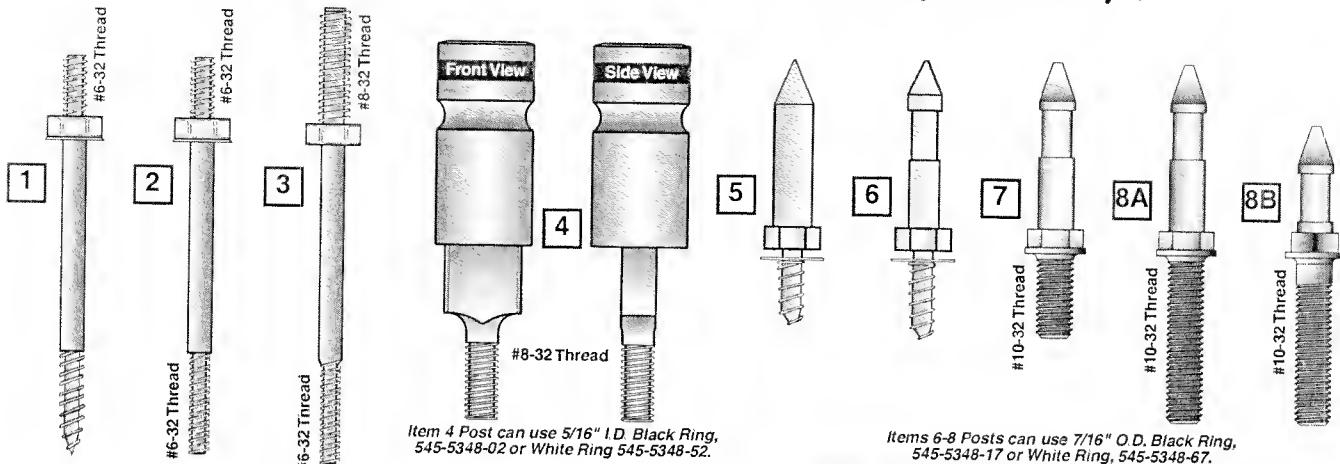
4	Resistor Assy See the Yellow Pages,	3	511-5223-00
5	3A 250v Slo-Blo Fuse Fuse Clip Holder (Socket)	3	200-5000-08

5	Item 5 is secured by: #6 X 3/4" PPH AB (Qty. 1/per) (237-5805-00) Note: Item 5, Fuse Clip Holder (Socket) 205-5000-01 is part of a set of 12 (205-5000-12). You can order them as individuals (...-01) or a set of 12 (...-12).	1	205-5000-01
6	Diode Terminal Strip 2-Lug (810) Isolated	4	055-5203-00
6	Diode Terminal Strip 3-Lug (813) Isolated	4	055-5204-03
6	Diode Terminal Strip 5-Lug (824) Isolated	0	055-5204-05

Items 6B-6C are secured by: #6 X 3/8 HWH AB Zinc (Qty. 1-2/per) (234-5000-00)
 Item 6B (Qty. 1) located in Cabinet. Note: 1N4004 Diodes (112-5003-00) are used in all Diode applications. 1N4001 Diodes can be used for Switches and/or Lamps.

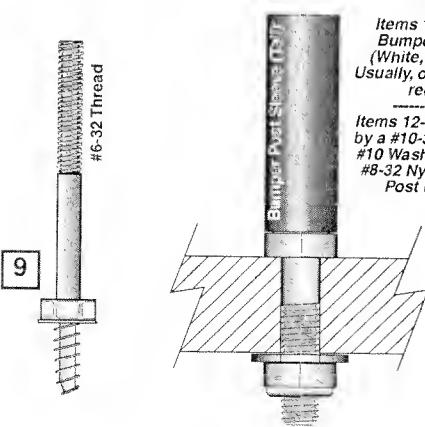
Nr.	MISC. BRACKETS (BELOW)	QTY.	SPI PART Nr.
7	Bracket, Playfield Support Slide		535-6862-05
7	Item 7 is secured by: #10 X 1/2" HWH A (Zinc) (Qty. 2/per) (237-5817-00). #8-32 X 5/8" SHWH Swage (Zinc) Wax (Qty. 1/per) (237-5975-03) and #8-32 T-Nut (Qty. 1/per) (240-5101-00)		
8	Bracket, Edge Slide (Extended)	2	535-5988-01
8	Item 8 is secured by: #4 X 1/2" PFH (Zinc) (Qty. 5/per) (237-5840-00) and #8-32 T-Nut (Qty. 2/per) (240-5101-00)		
9	Bracket, Pivot Pin Welded Assembly	2	500-5329-03
9	Item 9 is secured by: #8-32 X 5/8" SHWH Swage (Zinc) Wax (Qty. 2/per) (237-5975-03)		
10	Bracket, Back Panel Mounting	2	535-8964-00
10	Item 10 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2/per) (234-5101-00) and #8-32 T-Nut (Qty. 2/per) (240-5101-00) For a 3D View: See the Blue Pages, Page b 23.		
11	Bracket, Hole Protect (center up-post)	0	535-0289-00
11	Item 11 secured under the playfield by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00)		
12	Tie Post (White Nylon) 3-1/2"	12	545-5253-01
12	Item 12 is secured by: #6 X 5/8" SHWH AB Green (Qty. 1/per) (234-5002-00) and wiring with Cable Tie, 5-1/2" (Qty. 1/per) (040-5001-02)		

Playfield - Metal Posts & Fin Shank Screws (Actual Size) †



Item 4 Post can use 5/16" I.D. Black Ring, 545-5348-02 or White Ring 545-5348-52.

Items 6-8 Posts can use 7/16" O.D. Black Ring, 545-5348-17 or White Ring, 545-5348-67.



Items 11-16 & 18 Posts can use a Black Bumper Post Sleeve (Tall), 545-5308-00 (White, 545-5308-08 or Red, 545-5308-22) Usually, only Posts which are in the ball path require a Bumper Post Sleeve.

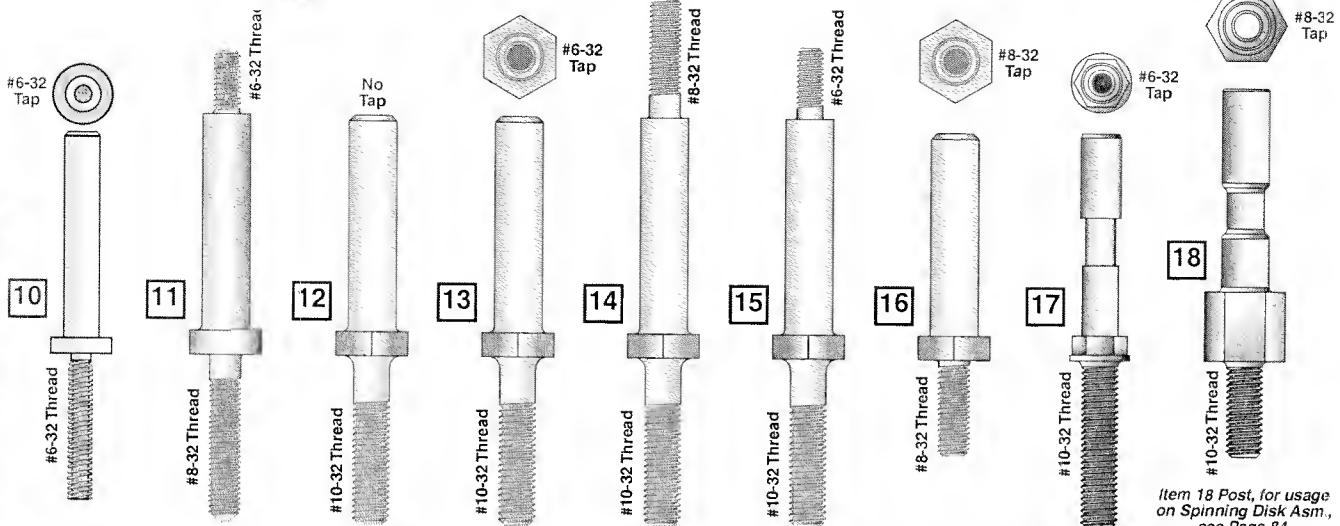
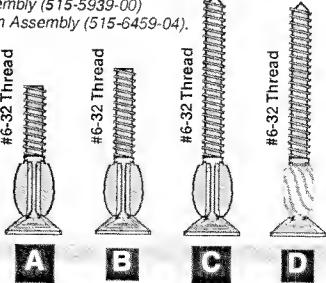
Items 12-15 & 18 Posts are typically secured by a #10-32 Nylon Stop Nut, 240-5203-00 and #10 Washer, 242-5010-00 (Item 11 Post use a #8-32 Nylon Stop Nut, 240-5102-00; Item 16 Post use a #8-32 T-Nut, 240-5101-00).

A & B Items A & B Note: Typically used to secure Hex Spacers onto the Playfield Wood or Back Panel.

C Item C Note: Quantity 4 on bottom Cabinet Speaker Grill (Qty. 4) (also requires #6-32 Nylon Stop Nut, 240-5005-00).

D Item D Note: Quantity 3 per on the Coil Bracket Welded Assembly (515-5939-00) in the Bumper Bottom Assembly (515-6459-04).

A - D Items A-D Note: The "Fins" keep the screw from turning inside the wood hole.



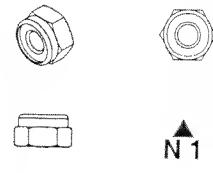
Item 18 Post, for usage on Spinning Disk Asm., see Page 84.

Nr.	METAL POSTS	SPI PART Nr.	Nr.	METAL POSTS	SPI PART Nr.
1	Post [Fasten] #6-32 Thread // Wood Screw	530-5010-02	12	Post [Hex Base] NO TAP // 10-32 Thread	530-5332-00
2	Post [Fasten] #6-32 Thread // #6-32 Thread	530-5012-02	13	Post [Hex Bs.] #6-32 TAP // #10-32 Thread	530-5332-01
3	Post [Fasten] #8-32 Thread // #6-32 Thread	530-5008-00	14	Post [Hex Bs.] #8-32 Thread // #10-32 Thr.	530-5332-02
4	Post Brass [Adjustable, Sliding] #8-32 Thread	530-5621-00	15	Post [Hex Bs.] #6-32 Thread // #10-32 Thr.	530-5332-03
5	Mini-Post Wood Screw (no cut-away)	530-5004-01	16	Post [Hex Bs.] #8-32 TAP // #8-32 Thread	530-5332-04
6	Mini-Post Wood Screw	530-5004-00	17	Post [Hex Bs.+Groove] #6-32 TAP // #10-32 Thr.	530-5679-00
7	Mini-Post Machine Scr. // #10-32 .4" Thread	530-5005-01	18	Post [Hex Bs.+Groove] #8-32 TAP // #10-32 Thr.	530-5753-00
8A	Mini-Post MS // #10-32 .875" Thread	530-5005-00			
8B	Mini-Post Short MS // #10-32 .875" Thread	530-5749-00			
9	Post [Fasten] #6-32 Thread // Wood Screw	530-5263-01	Nr.	FIN SHANK SCREWS	SPI PART Nr.
10	Post #6-32 Tap // #6-32 Thread	530-5127-00	A	#6-32 X 3/4" Fin Shank Screw	237-5921-02
11	Post [Fasten] #6-32 Thread // #8-32 Thread	530-5007-00	B	#6-32 X 7/8" Fin Shank Screw	237-5921-04
			C	#6-32 X 1 1/4" Fin Shank Screw	237-5883-00
			D	#6-32 X 1 15/16" Spiral Fin Shank Screw	237-5957-00

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER).
COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

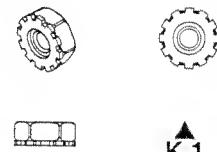
Playfield - Nylon Stop, KEPS, Hex, T-, Flange, Pal* & Wing Nuts* (Actual Size) †

Nr.	NYLON STOP NUTS*	SPI PART Nr.
N1	#6-32 Nylon Stop Nut	240-5005-00
N2	#6-32 N.S. Nut (with 1/4" Hex Body)	240-5010-00
N3	#8-32 Nylon Stop Nut	240-5102-00
N4	#10-32 Nylon Stop Nut	240-5203-00
N5	#10-24 Nylon Stop Nut	240-5206-00
	Item N5 used with #10-24 X 1-3/4" Carriage Bolt Square Neck Black (231-5022-00) located in the Cabinet for the Roto Lock (Male) (355-5006-01).	
N6	#4-40 Nylon Stop Nut	240-5303-00
N7	#4-40 (18/8 Stainless) Nylon Stop Nut	240-5303-01
N8	5/16"-18 Nylon Stop Nut	240-5316-00



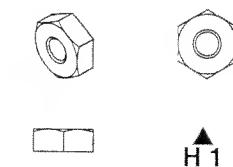
N 1

Nr.	KEPS NUTS*	SPI PART Nr.
K1	#6-32 Keps Nut (with Star Washer)	240-5008-00
K2	#6-32 Keps Nut (with 1/4" Hex Body)	240-5011-00
K3	#8-32 Keps Nut	240-5104-00
K4	#10-32 Keps Nut	240-5208-00
K5	#10-24 Keps Nut	240-5207-00
K6	#4-40 Keps Nut	240-5318-00



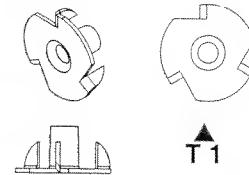
K 1

Nr.	HEX NUTS*	SPI PART Nr.
H1	#6-32 Hex Nut (No Star Washer)	240-5004-00
H2	#8-32 Hex Nut	240-5103-00
H3	#10-32 Hex Nut	240-5201-00
H4	#10-24 Hex Nut	240-5202-00
	Item H4 used with #10-24 X 1" Carriage Bolt Square Neck Black (231-5021-00) located in the Cabinet for the Side Armor Rear (towards Backbox).	
H5	#10-32 X 5/8" Hex Nut	240-5209-00
H6	3/4-16 Hex Nut	240-5315-00
H7	#2-56 Hex Nut	240-5301-00
H8	7/8"-14 Hex Nut	240-5317-00



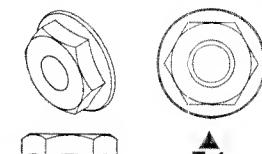
H 1

Nr.	T-NUTS*	SPI PART Nr.
T1	#6-32 T-Nut	240-5002-00
T2	#6-32 T-Nut (with Side Cut Off)	240-5002-01
T3	#8-32 T-Nut	240-5101-00
T4	#10-32 (Black Oxide) T-Nut	240-5007-00
T5	#10-32 T-Nut (with Side Cut Off)	240-5205-00
T6	#10-32 X 5/16" 3-Prong T-Nut	240-5204-00
T7	#10-24 T-Nut	240-5200-00



T 1

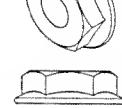
Nr.	FLANGE NUT*	SPI PART Nr.
F1	1/4" X 20 Flange Nut	240-5300-00
Item F1 used with 1/4-20 X 1-1/4 Sq. Neck Carriage Bolt Black (231-5003-00) located in the Cabinet for the Side Armor (Front) and Pivot Hinges.		



F 1

Nr.	PAL NUTS*	SPI PART Nr.
P1	Plastic Pal Nut (on Flipper Buttons)	240-5003-00
P2	Metal Pal Nut (on Flipper Buttons)	240-5003-01

* Not Shown



Parts Identification

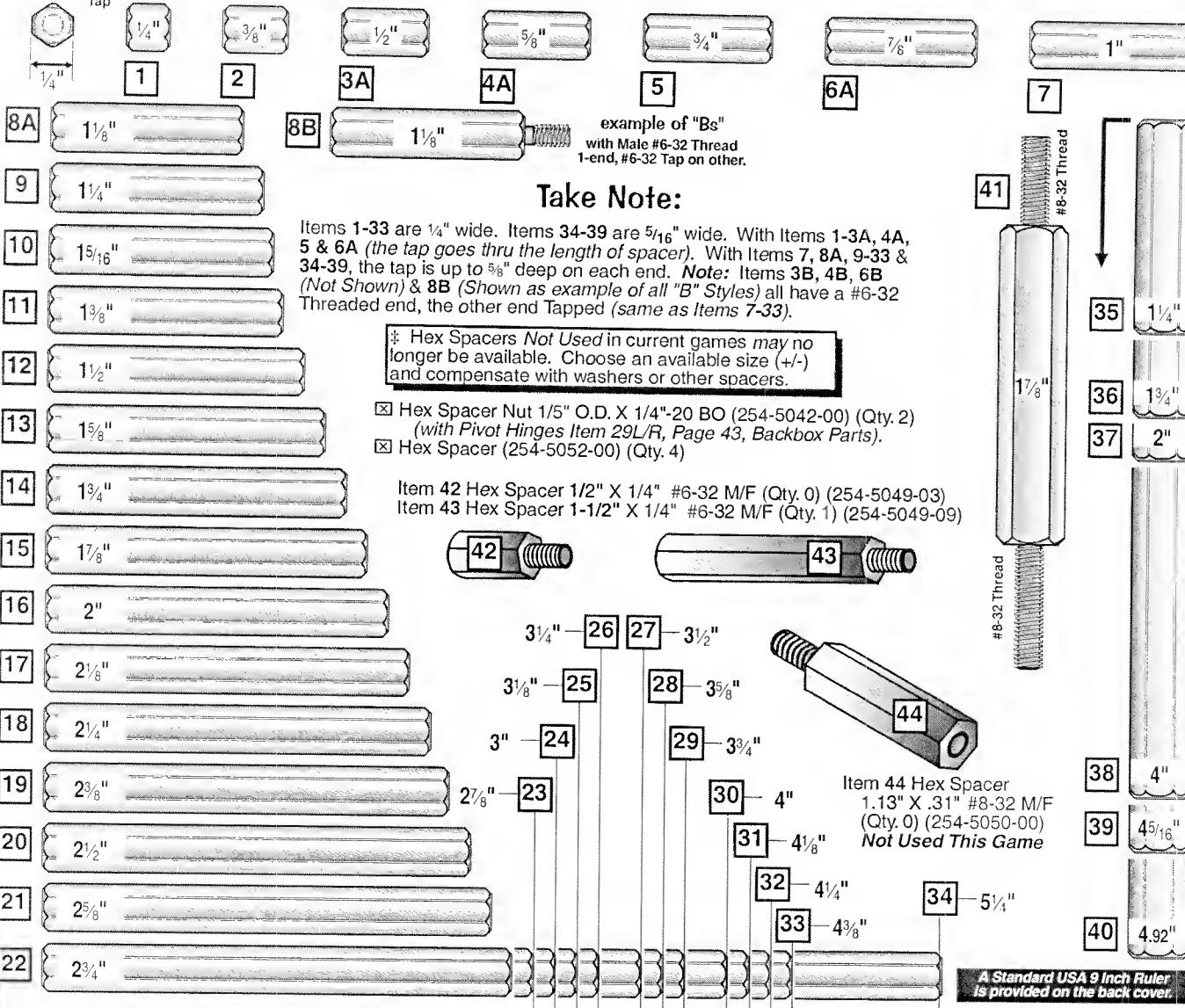
Nr.	WING NUTS*	SPI PART Nr.
W1	#6-32 Wing Nut	240-5001-00
W2	#8-32 Wing Nut	240-5100-00
W3	#10-24 Wing Nut	240-5211-00
W4	1/4"-20 Wing Nut	240-5302-00
W5	1/4"-20 Toggle Wing	240-5324-00

* Not Shown

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER).
COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top - Hex Spacers (Actual Size) †

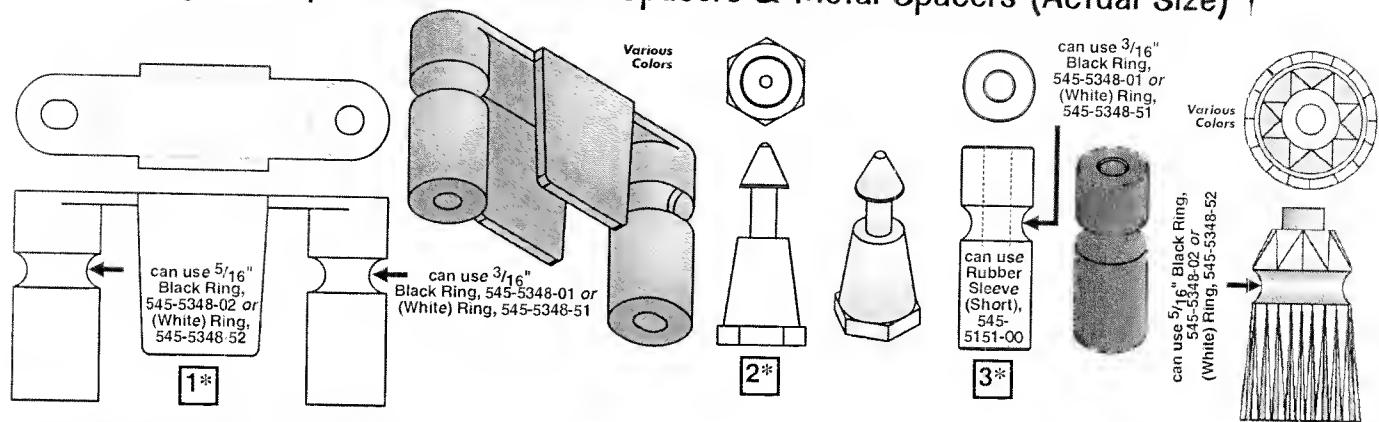
Hex Spacers:
#6-32
Tap



Nr.	HEX SPACERS	SPI PART Nr.	Nr.	HEX SPACERS	SPI PART Nr.
1	1/4" X 1/4" : #6-32 Tap (both ends)	254-5008-00	19	2 3/8" X 1 1/4" : #6-32 Tap (both ends)	254-5008-28
2	3/8" X 1/4" : #6-32 Tap (both ends)	254-5008-12	20	2 1/2" X 1 1/4" : #6-32 Tap (both ends)	254-5008-16
3A	1/2" X 1/4" : #6-32 Tap (both ends)	254-5008-03	21	2 5/8" X 1 1/4" : #6-32 Tap (both ends)	254-5008-08
3B*	Identical to 3A with #6-32 Thread end	254-5024-03	22	2 3/4" X 1 1/4" : #6-32 Tap (both ends)	254-5008-15
4A	5/8" X 1/4" : #6-32 Tap (both ends)	254-5008-02	23	2 7/8" X 1 1/4" : #6-32 Tap (both ends)	254-5008-31
4B*	Identical to 4A with #6-32 Thread end	254-5024-02	24	3" X 1/4" : #6-32 Tap (both ends)	254-5008-14
5	3/4" X 1/4" : #6-32 Tap (both ends)	254-5008-04	25	3 1/8" X 1 1/4" : #6-32 Tap (both ends)	254-5008-19
6A	7/8" X 1/4" : #6-32 Tap (both ends)	254-5008-05	26	3 1/4" X 1 1/4" : #6-32 Tap (both ends)	254-5008-26
6B*	Identical to 6A with #6-32 Thread end	254-5024-05	27	3 1/2" X 1 1/4" : #6-32 Tap (both ends)	254-5008-27
7	1" X 1/4" : #6-32 Tap (both ends)	254-5008-06	28	3 5/8" X 1 1/4" : #6-32 Tap (both ends)	254-5008-25
8A	1 1/8" X 1/4" : #6-32 Tap (both ends)	254-5008-17	29	3 3/4" X 1 1/4" : #6-32 Tap (both ends)	254-5008-36
8B	Identical to 8A with #6-32 Thread end	254-5024-17	30	4" X 1/4" : #6-32 Tap (both ends)	254-5008-21
9	1 1/4" X 1/4" : #6-32 Tap (both ends)	254-5008-11	31	4 1/8" X 1 1/4" : #6-32 Tap (both ends)	254-5008-23
10	1 5/16" X 1/4" : #6-32 Tap (both ends)	254-5008-34	32	4 1/4" X 1 1/4" : #6-32 Tap (both ends)	254-5008-30
11	1 3/8" X 1/4" : #6-32 Tap (both ends)	254-5008-33	33	4 3/8" X 1 1/4" : #6-32 Tap (both ends)	254-5008-29
12	1 1/2" X 1/4" : #6-32 Tap (both ends)	254-5008-09	34	5 1/4" X 1 1/4" : #6-32 Tap (both ends)	254-5008-35
13	1 5/8" X 1/4" : #6-32 Tap (both ends)	254-5008-13	35	1 1/4" X 5/16" : #6-32 Tap (both ends)	254-5018-09
14	1 3/4" X 1/4" : #6-32 Tap (both ends)	254-5008-10	36	1 3/4" X 5/16" : #6-32 Tap (both ends)	254-5018-06
15	1 7/8" X 1/4" : #6-32 Tap (both ends)	254-5008-20	37	2" X 5/16" : #6-32 Tap (both ends)	254-5018-07
16	2" X 1/4" : #6-32 Tap (both ends)	254-5008-07	38	4" X 5/16" : #6-32 Tap (both ends)	254-5018-03
17	2 1/8" X 1/4" : #6-32 Tap (both ends)	254-5008-32	39	4 5/16" X 5/16" : #6-32 Tap (both ends)	254-5018-00
18	2 1/4" X 1/4" : #6-32 Tap (both ends)	254-5008-18	40	4.92" X 5/16" : #6-32 Tap (both ends)	254-5018-04

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER).
COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top - Plastic Posts & Spacers & Metal Spacers (Actual Size)

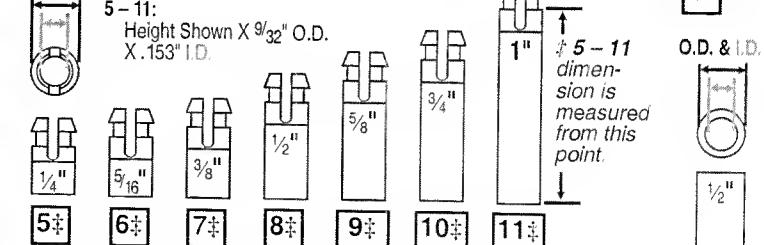


PLASTIC PART COLOR CHART

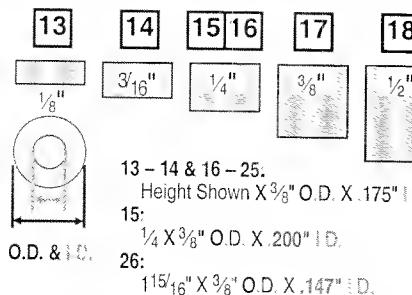
Nr.	Color	Nr.	Color	Nr.	Color
-00	Black	-06	Yellow	-12	Fluor. Blue
-01	Clear	-07	Orange	-13	Teal Green
-02	Red	-08	(White)	-14	(Gray)
-03	Amber	-09	Purple	-15	Luminescent
-04	Green	-10	Fluor. Org.	-16	Gold
-05	Blue	-11	Fluor. Green		

* Items 1 & 5 come in various colors. The "-XX" (the last 2-Digits in the Part Number), should be replaced with the desired 2-Digit number from the above Color Chart (may not be available in every color; other colors used in prior games may no longer be available.) Call for availability.

O.D. & I.D.



* Items 5 through 11 dimensions are measured from bottom to just under the cut-away. Item 33 dimension is measured from top-to-top of curve. See pictorials with Items 11 & 33.

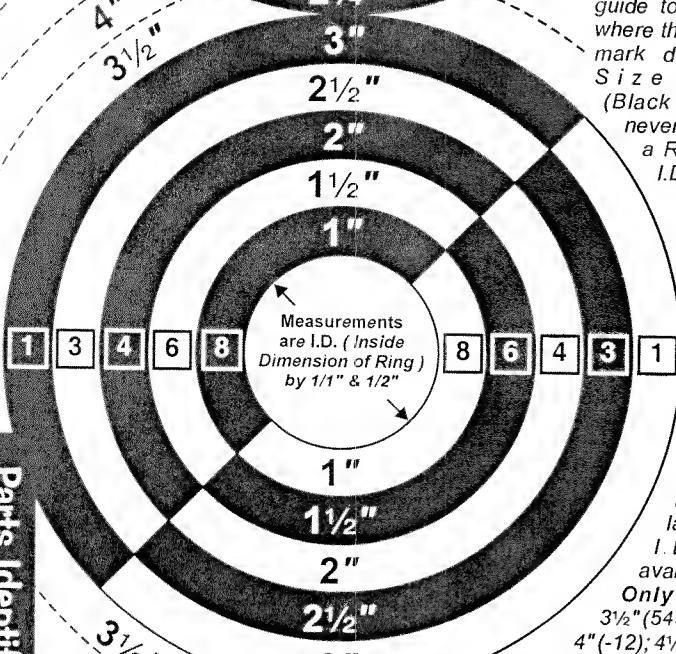
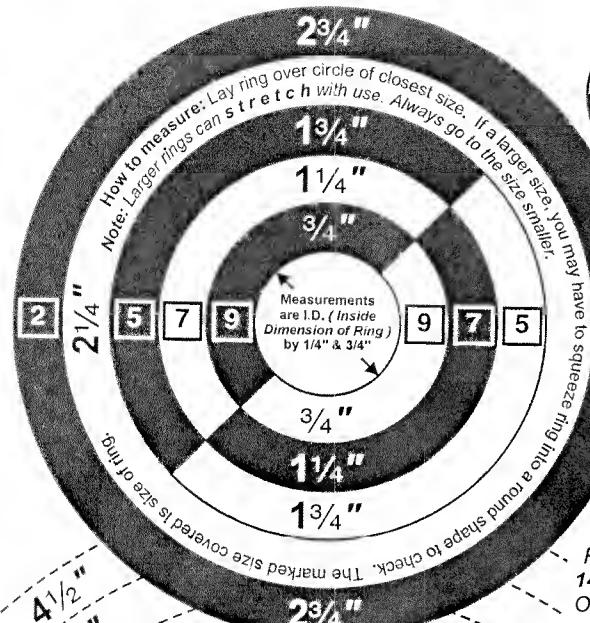


1* Note the Part Nr. & Material Difference

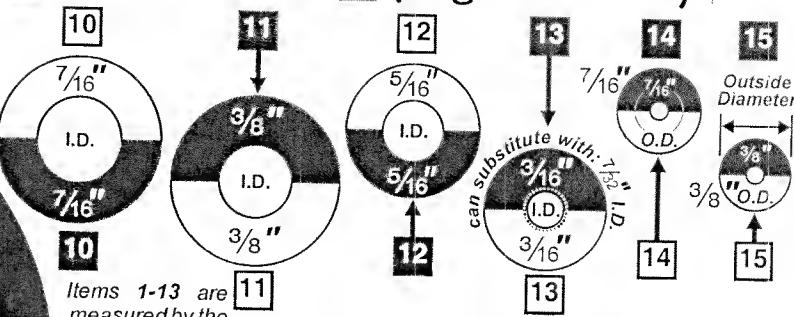


Use 254-5000-06N for Natural (White)

Playfield - Rubber Parts Black ■, White □ & Blue □ (Rings Actual Size) †



Shown on this page, listed in the Parts Table below or are noted with N/U (Not Used) are currently not available.



Items 1-13 are measured by the Inside Diameter (I.D.). Items 1-9 and 11 are approximately 1/4" thick. Items 10, 12-15 are approximately 3/16" thick. Item 13 can also be a 7/32" I.D. Ring. The size is imprinted on all Rings except for Items 14-15 (7/16" O.D. & 3/8" O.D.). Use this page as a guide to measure rings where the size imprint or mark does not exist. Size 2 1/4" I.D. (Black or White) was never used. Choose a Ring Size +/- 1/4" I.D. if required.

Items 1-13 are measured by the Inside Diameter (I.D.). Items 1-9 and 11 are approximately 1/4" thick. Items 10, 12-15 are approximately 3/16" thick. Item 13 can also be a 7/32" I.D. Ring. The size is imprinted on all Rings except for Items 14-15 (7/16" O.D. & 3/8" O.D.). Use this page as a guide to measure rings where the size imprint or mark does not exist. Size 2 1/4" I.D. (Black or White) was never used. Choose a Ring Size +/- 1/4" I.D. if required.

Nr.	RUBBER RINGS	QTY.	SPI PART Nr.
1	3" I.D. Rubber Ring BLACK	545-5348-10	
	3" I.D. Rubber Ring WHITE	545-5348-60	
2	2 3/4" I.D. Rubber Ring BLK	545-5348-20	
	N/U		
3	2 1/2" I.D. Rubber Ring BLK	2	545-5348-09
	2 1/2" I.D. Rubber Ring WHT		545-5348-59
4	2" I.D. Rubber Ring BLACK	1	545-5348-08
	2" I.D. Rubber Ring WHITE		545-5348-58
5	1 3/4" I.D. Rubber Ring BLK	1	545-5348-21
	N/U		
6	1 1/2" I.D. Rubber Ring BLK	1	545-5348-07
	1 1/2" I.D. Rubber Ring WHT	1	545-5348-57
7	1 1/4" I.D. Rubber Ring BLK	1	545-5348-06
	1 1/4" I.D. Rubber Ring WHT		545-5348-56
8	1" I.D. Rubber Ring BLACK	1	545-5348-05
	1" I.D. Rubber Ring WHITE		545-5348-55
9	3/4" I.D. Rubber Ring BLACK	1	545-5348-04
	3/4" I.D. Rubber Ring WHITE		545-5348-54
10	7/16" I.D. Rubber Ring BLK		545-5348-18
	7/16" I.D. Rubber Ring WHT		545-5348-68
	3/8" I.D. Rubber Ring BLACK		545-5348-03
	N/U		
11	5/16" I.D. Rubber Ring BLK	4	545-5348-02
	5/16" I.D. Rubber Ring WHT		545-5348-52
12	3/16" I.D. Rubber Ring BLK	6	545-5348-01
	3/16" I.D. Rubber Ring WHT		545-5348-51
13	7/16" O.D. Rubber Ring BLK	51	545-5348-17
	7/16" O.D. Rubber Ring WHT		545-5348-67
	Note: Item 14, 7/16" O.D. Black Rings (Qty. 44 of 49) are used to cushion the Bayonet Sockets under the playfield (between bracket & playfield).		
14	3/8" O.D. Rubber Ring BLK	545-5348-19	
	3/8" O.D. Rubber Ring WHT		545-5348-69
15	Small Flipper BLACK Ring (Soft Duro)		545-5207-00
	Small Flipper RED Ring (Soft Duro)		545-5207-22
16	Large Flipper BLACK Ring (50 Duro)	3	545-5277-00
	Large Flipper YELLOW Ring (50 Duro) (use -06 40 Duro)		545-5277-04
17	Large Flipper WHITE Ring (50 Duro)		545-5277-08
	Large Flipper RED Ring (Soft Duro)		545-5277-22

Nr.	RBR. BUMPER POST SLVS.	QTY.	SPI PART Nr.
D*	Bumper BLACK Post Sleeve (Tall)	7	545-5308-00
	Item D in RED use 545-5308-22; Item D in WHITE use 545-5308-08.		
E*	Bumper Post Sleeve (Short)	1	545-5151-00

Take Note:

For Blue Rubber Pads, see the next page and/or the Blue Pages for the assembly the pads are found on for the part number.

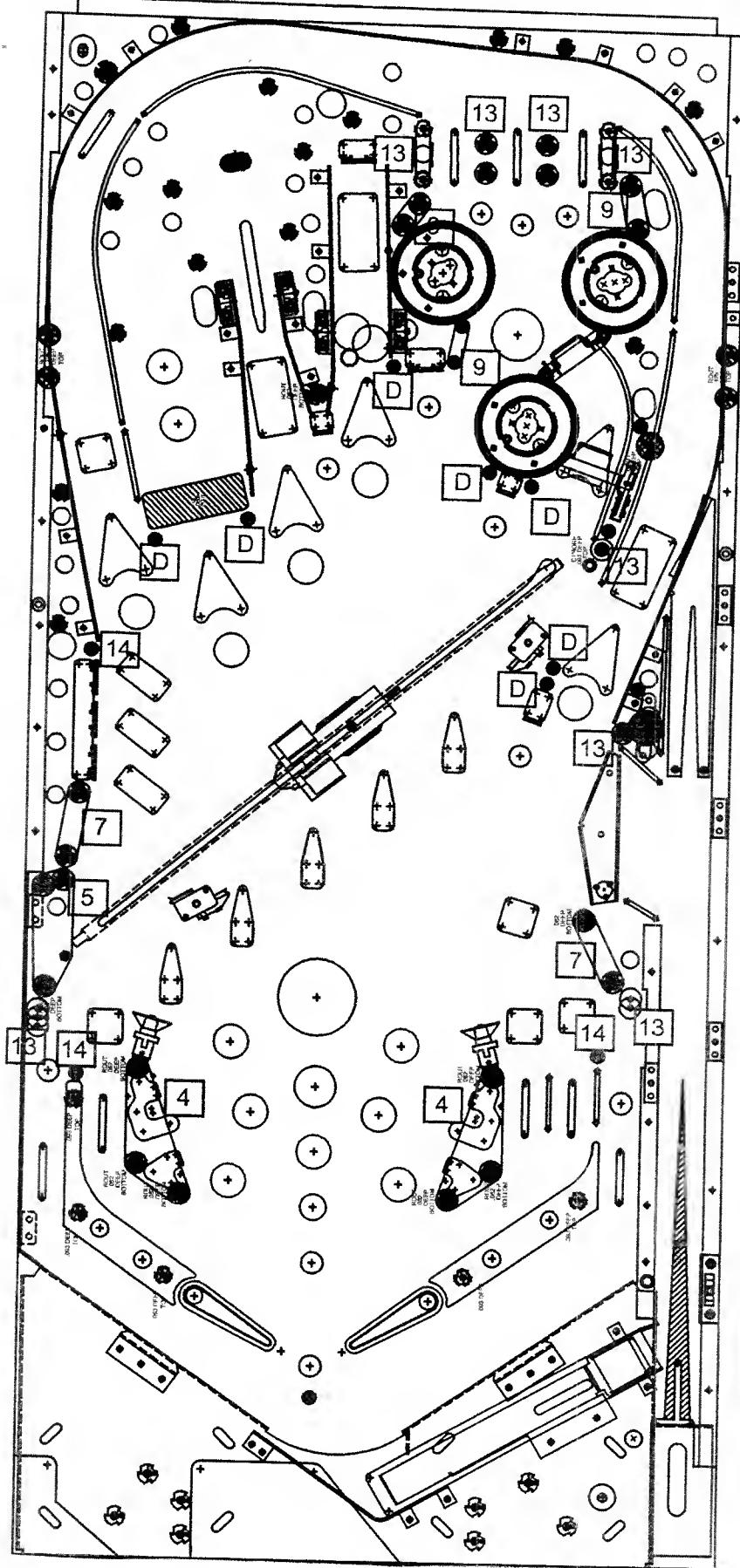
Nr.	RUBBER BUMPER PADS	QTY.	SPI PART Nr.
A*	Bumper BLK Pad (Lg. w/ grommet)	2	545-5428-00

Item A are located on Flipper Assemblies. See next page for location.

Nr.	RUBBER BUMPER PADS	QTY.	SPI PART Nr.
B*	Bumper BLK Pad (Sm. w/ grommet)	3	545-5105-00

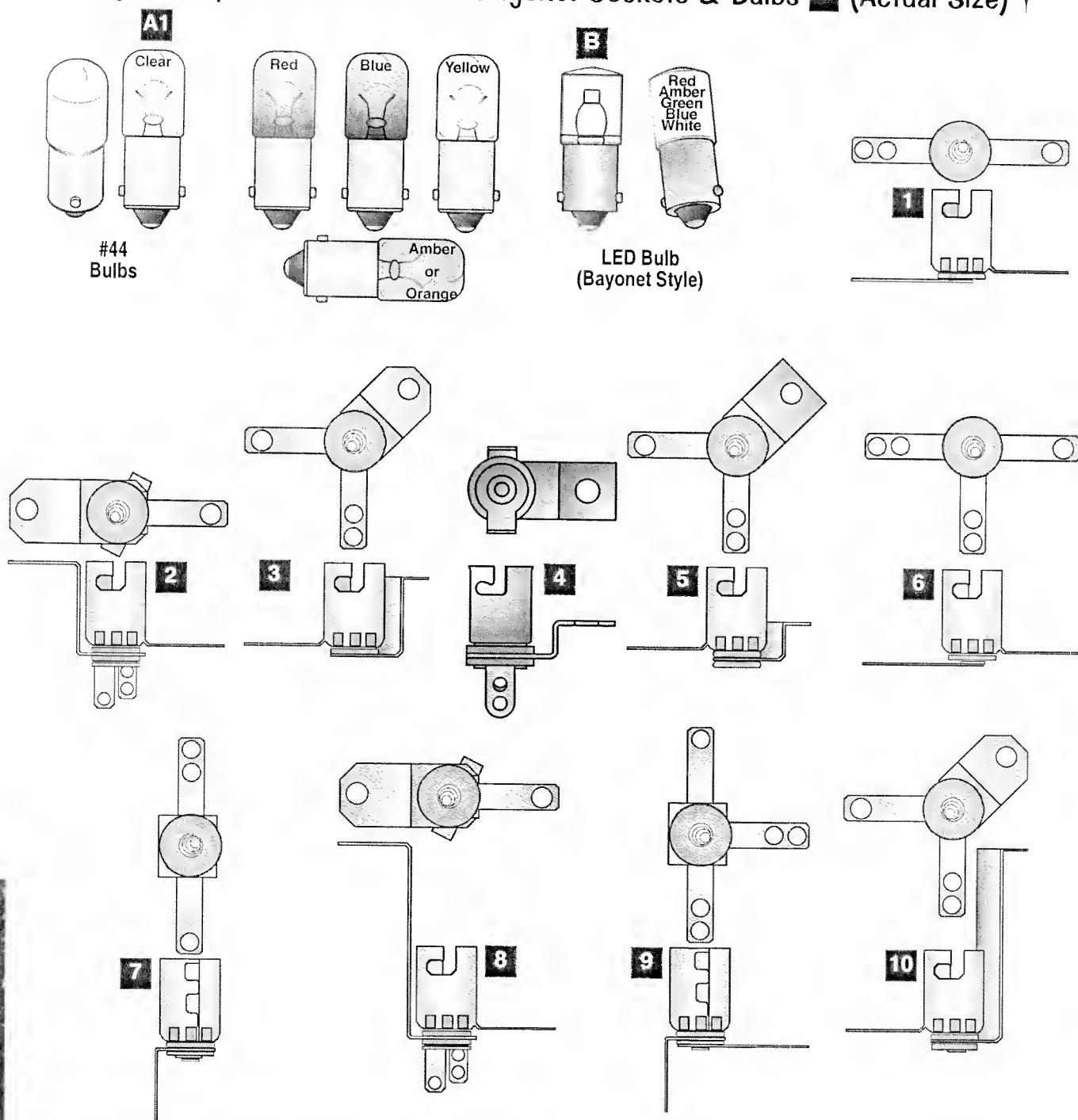
Item B are located on multiple assemblies. See next page for location.

Playfield Top & Bottom - Rubber Parts Black , White & Blue Continued



Playfield Top & Bottom - Small Bayonet Sockets & Bulbs (Actual Size) †

Parts Identification

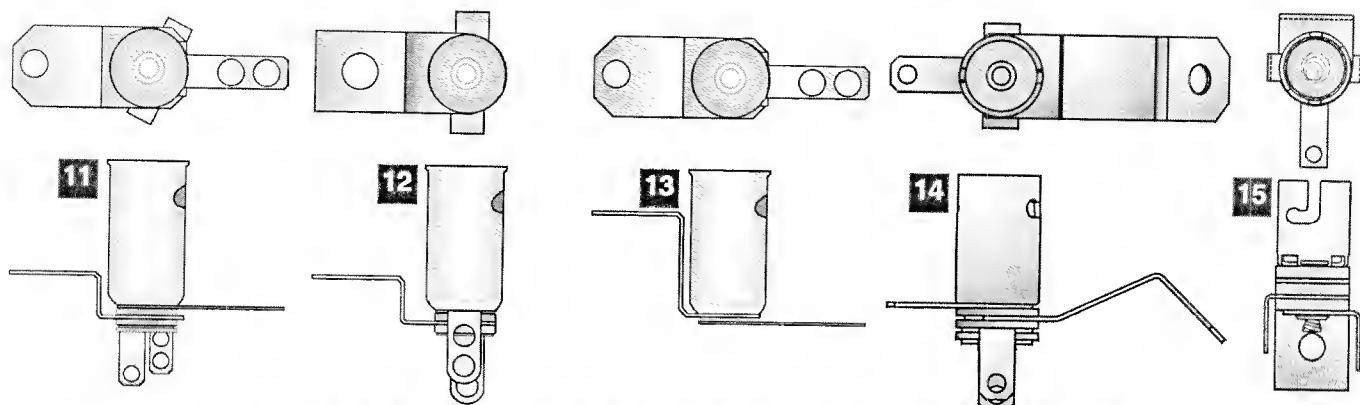


Nr.	BULBS (#44)	SPI PART Nr.	Nr.	BULBS (LED & #455)	SPI PART Nr.
A	#44 Bulb (Clear) Heavy Filament	165-5000-44-HF	B	LED Module (WHT) (12.8v 20-25mA) Bynt.	112-5023-08
	#44 Bulb (replace -XX w/color below)	165-5053-XX-HF		Item B Note: Different Colors may be available - Red (112-5023-02); Amber (112-5023-03); Green (112-5023-04); Blue (112-5023-05); Red (165-5053-02-HF); Blue (165-5053-05-HF); Orange (165-5053-07-HF)	

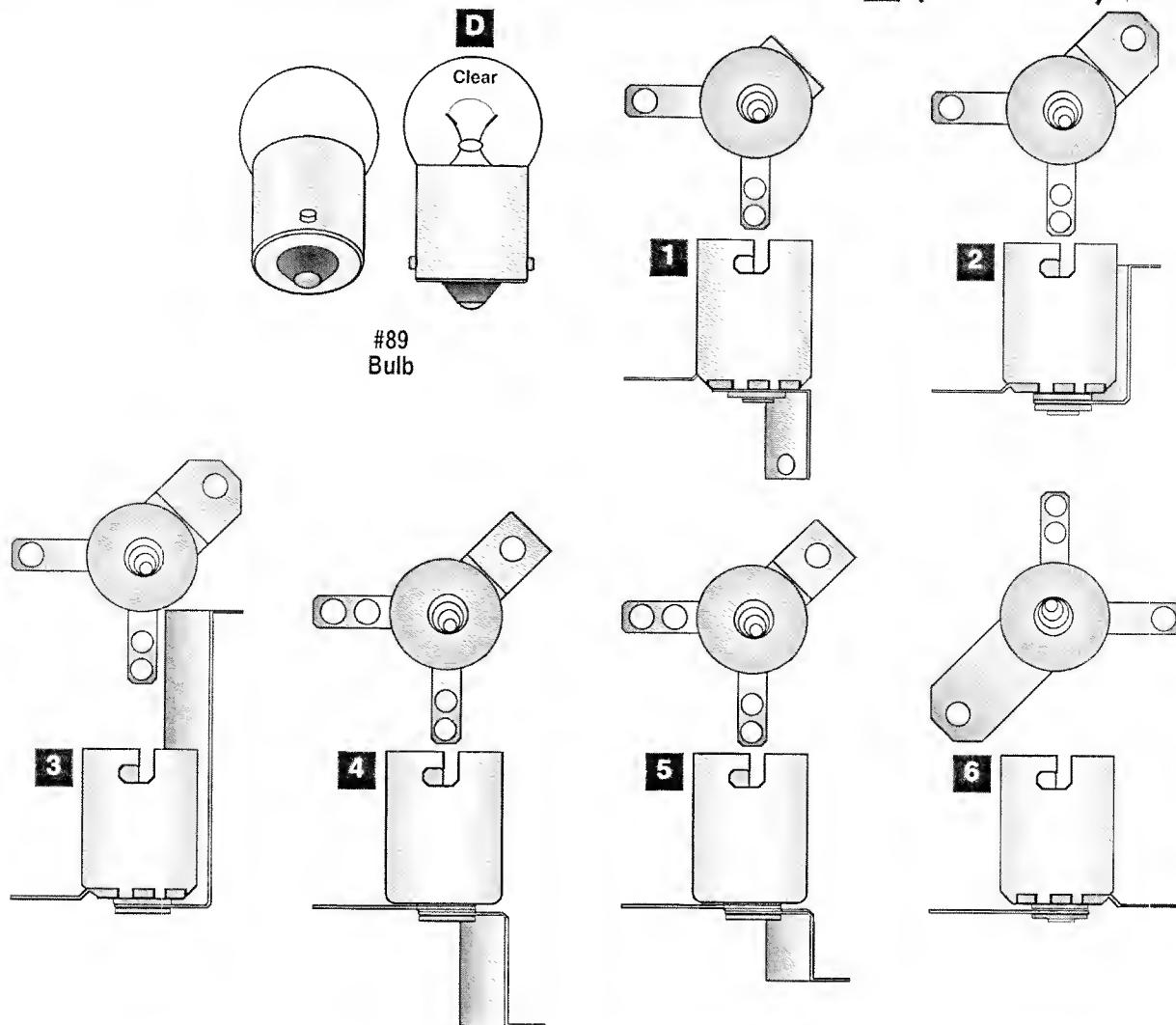
Nr.	SMALL BAYONET SOCKETS	SPI PART Nr.	Nr.	SMALL BAYONET SOCKETS	SPI PART Nr.
1	2-Lug Staple Down Socket	077-5000-00	9	3-Lug Laydown Socket (3 Lugs Flat)	077-5006-00
2	3-Lug Stand-Up Socket (Med. Brkt.)	077-5008-00	10	2-Lug Stand-Up Socket (Tall Bracket)	077-5005-00
3	2-Lug Stand-Up Socket (Med. Brkt.)	077-5002-00	11	3-Lug Stand-Up Long Shell Socket	077-5013-00
4	2-Lug Stand-Up Socket (Short Brkt.)	077-5223-00	12	2-Lug Stand-Up Lg. Shell Socket (G1s)	077-5031-00
5	2-Lug Stand-Up Sckt. (Short Bracket)	077-5002-31	13	1-Lug S-U Lg. Shell Sckt. (Med. Brkt.)	077-5012-00
6	3-Lug Staple Down Socket	077-5001-00	14	3-Lug S-U Lg. Shell Sckt. (45° Brkt.)	077-5035-00
7	2-Lug Laydown Socket	077-5003-00	15	3-Lug Laydown Socket (2 Lugs Bent)	077-5032-00
8	3-Lug Stand-Up Socket (Tall Bracket)	077-5009-00			

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER).
COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top & Bot. - Small Bayonet Sockets & Bulbs (Actual Size) † Continued



Playfield Bottom - Large Bayonet Sockets & Bulbs (Actual Size) †

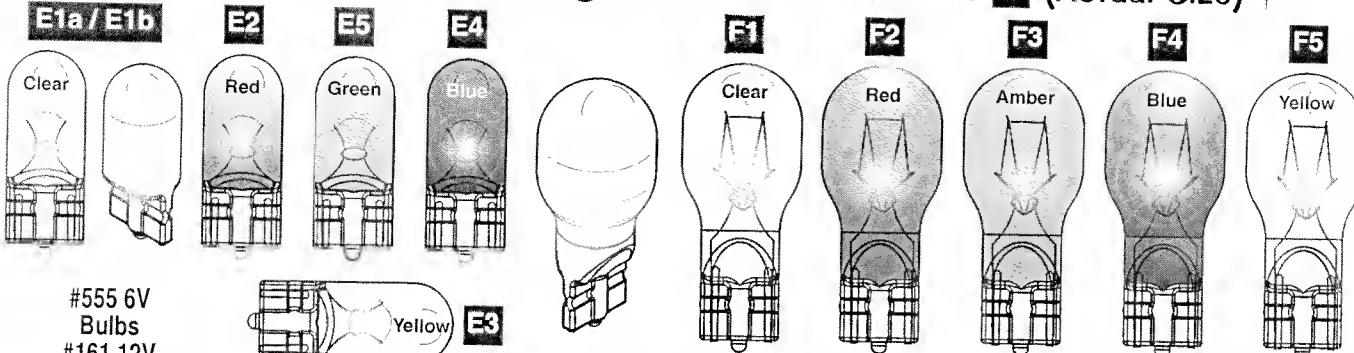


Parts Identification

Nr.	BULBS (#89)	SPI PART Nr.	Nr.	LARGE BAYONET SOCKETS	SPI PART Nr.
D	#89 Bulb Heavy Filament	165-5000-89-HF	1	2-Lug Laydown Standard Socket	077-5100-00
			2	2-Lug Stand-Up Short Socket	077-5101-00
			3	2-Lug Stand-Up Long Socket	077-5102-00
			4	2-Lug Stand-Up Rev. Mount Socket	077-5103-00
			5	2-Lug Stand-Up Rv. Mnt. Short Socket	077-5106-00
			6	2-Lug Straight Leg Socket	077-5107-00

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER).
COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top & Bottom - Wedge Base Sockets & Bulbs (Actual Size) †

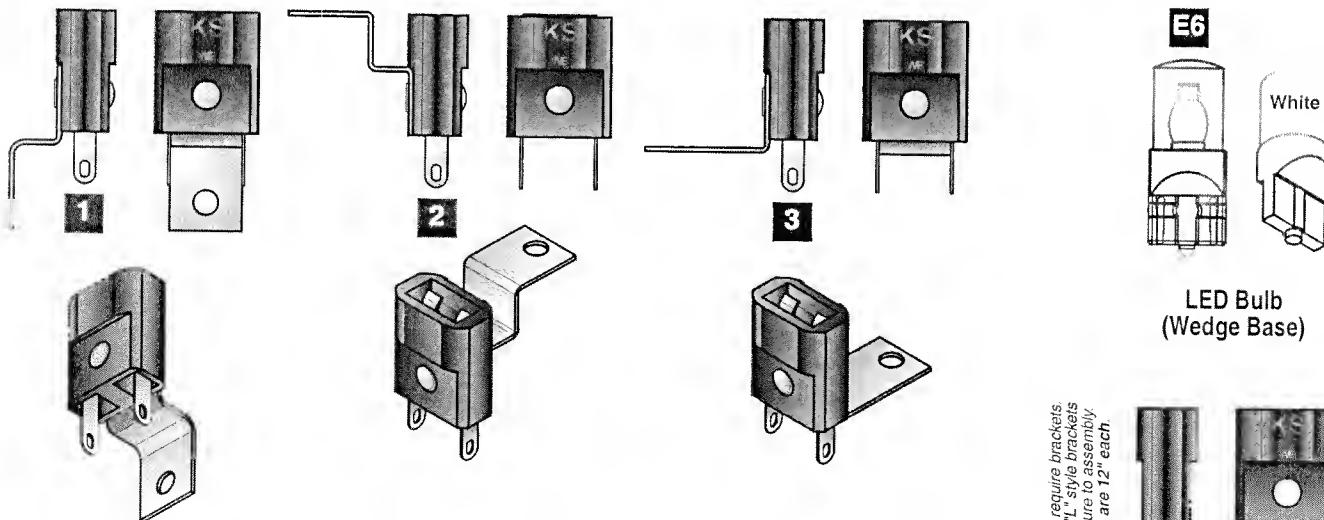


#555 6V
Bulbs
#161 12V
Bulb

E3

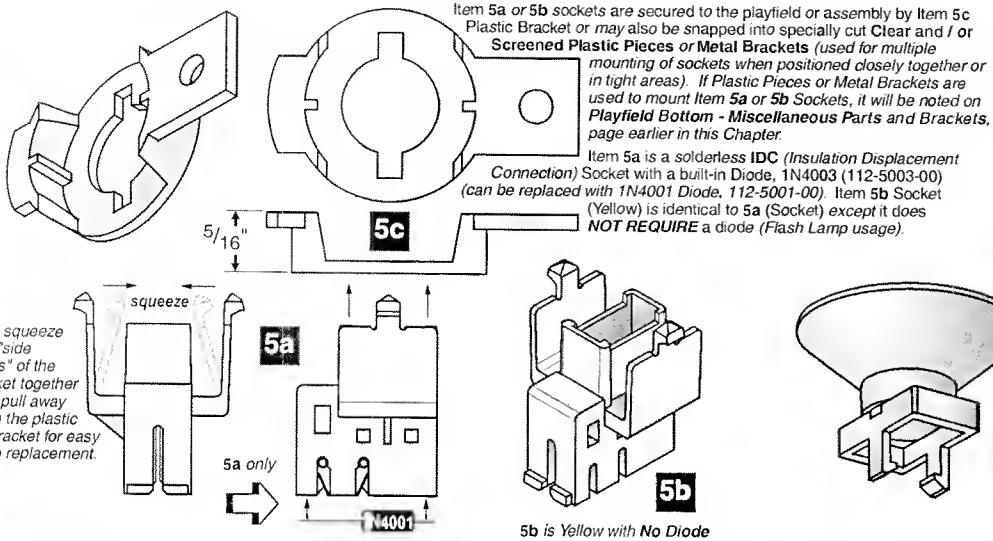
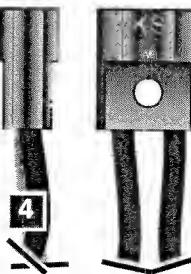
#906
Bulbs

Note: Always replace with same type bulb in original application.



LED Bulb
(Wedge Base)

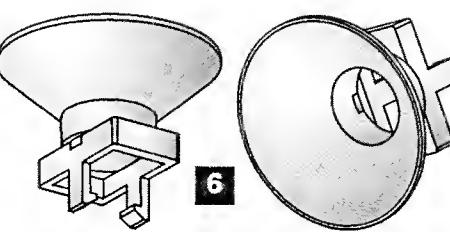
Item 4 Socket does not require brackets.
Old stock may include "L" style brackets.
(each side) do not secure to assembly.
Black Wires (Qty. 2) are 12" each.



Item 5a or 5b sockets are secured to the playfield or assembly by Item 5c Plastic Bracket or may also be snapped into specially cut Clear and / or Screened Plastic Pieces or Metal Brackets (used for multiple mounting of sockets when positioned closely together or in tight areas). If Plastic Pieces or Metal Brackets are used to mount Item 5a or 5b Sockets, it will be noted on Playfield Bottom - Miscellaneous Parts and Brackets, page earlier in this Chapter.

Item 5a is a solderless IDC (Insulation Displacement Connection) Socket with a built-in Diode, 1N4003 (112-5003-00) (can be replaced with 1N4001 Diode, 112-5001-00). Item 5b Socket (Yellow) is identical to 5a (Socket) except it does NOT REQUIRE a diode (Flash Lamp usage).

5b is Yellow with No Diode



Just squeeze the "side arms" of the socket together and pull away from the plastic or bracket for easy Bulb replacement.

Nr.	BULBS (#555)	SPI PART Nr.	Nr.	BULBS (LED & #906)	SPI PART Nr.
E1a	#555 Wedge Base Bulb (Clear)	165-5002-00	E6	LED Module (WHT) (5v - 6.3v) Wedge Base	112-5024-08
E2-E5	#555 Wedge Base Bulb (Multi-Color)	165-5054-XX		Item E6 Bulb Note : Typically used with Item 4 Socket in Pop Bumpers.	
Item E2-E5 Bulb Note:	Different Colors available (not used in this game) ~ Red (165-5054-02); Green (165-5054-04); Blue (165-5054-05); Yellow (165-5054-06);		F	#906 Wedge Base Bulb (Clear)	165-5004-00
E1b	#161 12V Wedge Base Bulb (Clear)	165-5032-00	Item F Note:	Different Colors available (not used in this game) ~ Red (165-5004-02); Amber (165-5004-03); Blue (165-5004-05); Yellow (165-5004-06)	

Nr.	WEDGE BASE SOCKETS	SPI PART Nr.	Nr.	WEDGE BASE SOCKETS	SPI PART Nr.
1	Wedge Base Socket (Laydown)	077-5026-01	5a	IDC Snap-On Socket (Biege)	077-5216-00
2	Wedge Base Socket (Offset)	077-5029-00	5b	IDC Snap-On Socket <i>No Diode</i> (Yel.)	077-5216-01
3	Wedge Base Socket (Laydown GI)	077-5030-00	5c	5/16" Ht. Bracket (White)	545-5760-18
4	W.B. Socket (Bumpers/Special App.)	077-5206-00	6	Light Reflector (Silver Plst.) REF540N	545-5409-01

Note Item 6 : Typically used with Item 1 (but will fit on any similar Wedge Base Socket).

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COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.